

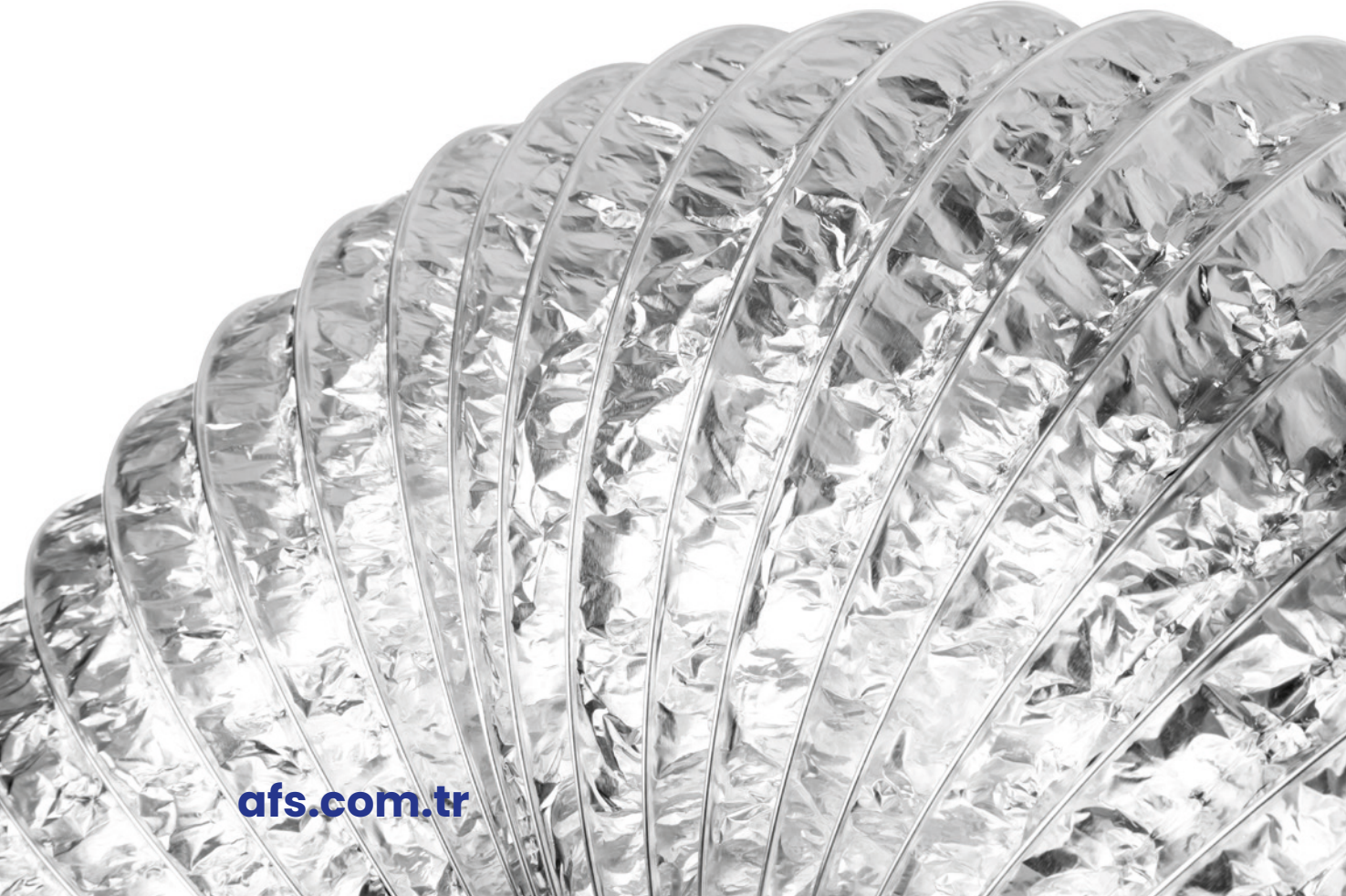


Flexible Air Ducts & Accessories

we deliver fresh air

flexible series

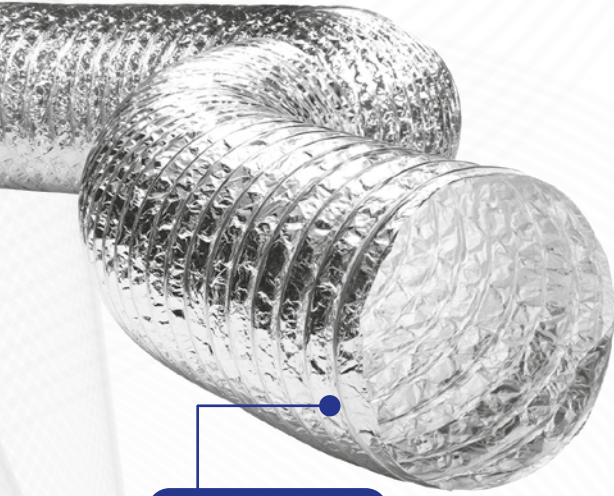
afs.com.tr





Classified and certified according to EN 13180. All technical details are for information only. All information and technical data in this leaflet is subject to change without prior notice. Based on these, permissible length tolerance is $(\pm) 3\%$ for stated length (measured after fully stretched according to EN 13180)

ALUAFS.70



Class B-s1, d0
(EN 13501-1)

&M1

TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 2 ply polyester
Nominal Thickness	70 micron
Diameter Range (Ø)	52 mm – 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Difficult to ignite
Certificates	M1 (France) Class B – s1, d0 (EN 13501-1) EN ISO 11925-2 single flame source test report



ALUAFS.F



Class A2-s1, d0
(EN 13501-1)

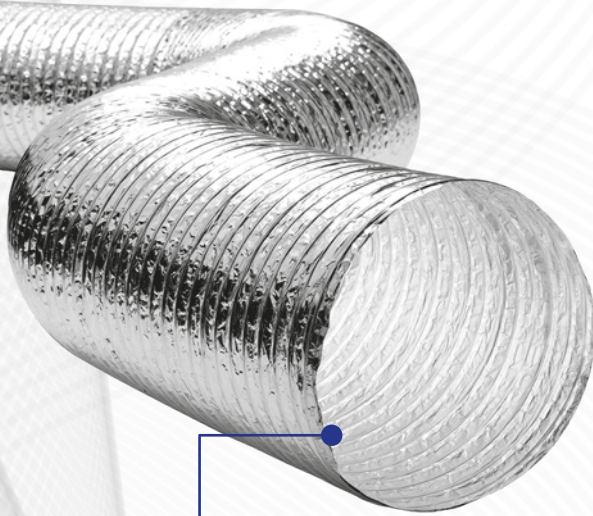
&M0

TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness of Inner Duct	74 micron
Diameter Range (Ø)	82 mm – 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Limited combustibility
Certificates	M0 (France) Class A2-s1, d0 (EN 13501-1)



ALUAFS.F FORTE



Class A2-s1, d0
(EN 13501-1)
&M0

TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness	74 micron
Diameter Range (Ø)	82 mm - 800 mm
Wire Spacing	18 mm (Ø ≥ 102 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Limited combustibility
Advantages	Very low pressure loss, Minimum sag, High Durability
Certificates	M0 (France) Class A2-s1, d0 (EN 13501-1)



ISOAFS-ALU.70



M1

TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 2 ply polyester
Nominal Thickness of Inner Duct	70 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	35 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Difficult to ignite
Available Options Upon Request	Customized lengths, Private labeling, White polyester insulation & PE jacket, 40 & 50 mm Glass wool insulation, 24 kg/m³ Glass wool insulation
Certificates	M1 (France)

ISOAFS-ALU.F



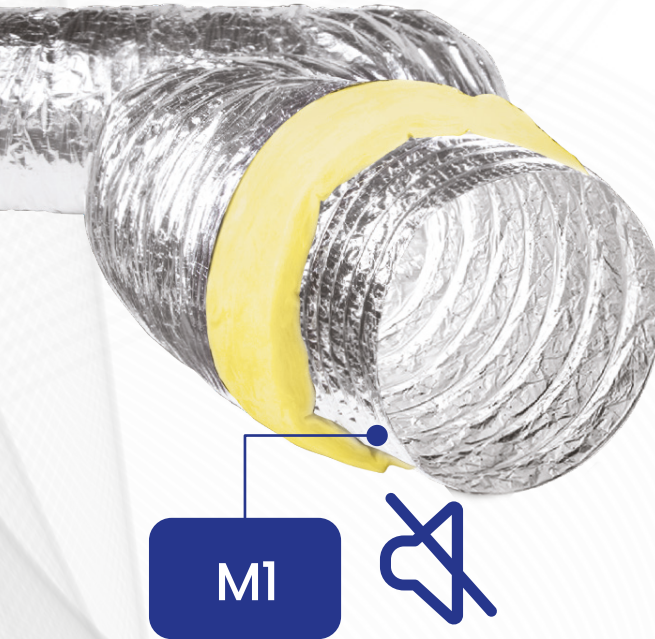
M0 + M1

TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Difficult to ignite
Available Options Upon Request	Customized lengths, Private labeling, White polyester insulation & PE jacket, 40 & 50 mm Glass wool insulation, 24 kg/m³ Glass wool insulation
Certificates	M0 + M1 (France)



SONOAFS-ALU.70



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 2 ply polyester [Perforated]
Nominal Thickness of Inner Duct	70 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Difficult to ignite
Available Options Upon Request	Customized lengths, Private labeling, White polyester insulation & PE jacket, 40 & 50 mm Glass wool insulation, 24 kg/m³ Glass wool insulation PE barrier between duct and glass wool
Certificates	M1 (France)

SONOAFS-ALU.F



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester [Perforated]
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Difficult to ignite
Available Options Upon Request	Customized lengths, Private labeling, White polyester insulation & PE jacket, 40 & 50 mm Glass wool insulation, 24 kg/m³ Glass wool insulation PE barrier between duct and glass wool
Certificates	M0 + M1 (France)

ISOAFS-ALU.70 ECOSOFT



Class B - s1, d0
(EN 13501-1)
&M1

TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 2 ply polyester
Nominal Thickness of Inner Duct	70 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	52 mm - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Special design cardboard box
Reaction to Fire	Difficult to ignite
Certificates	M1 (France) Class B - s1, d0 (EN 13501-1)

ecosoft
Naturally Different



*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

ISOAFS-ALU.F ECOSOFT



M0 + M1

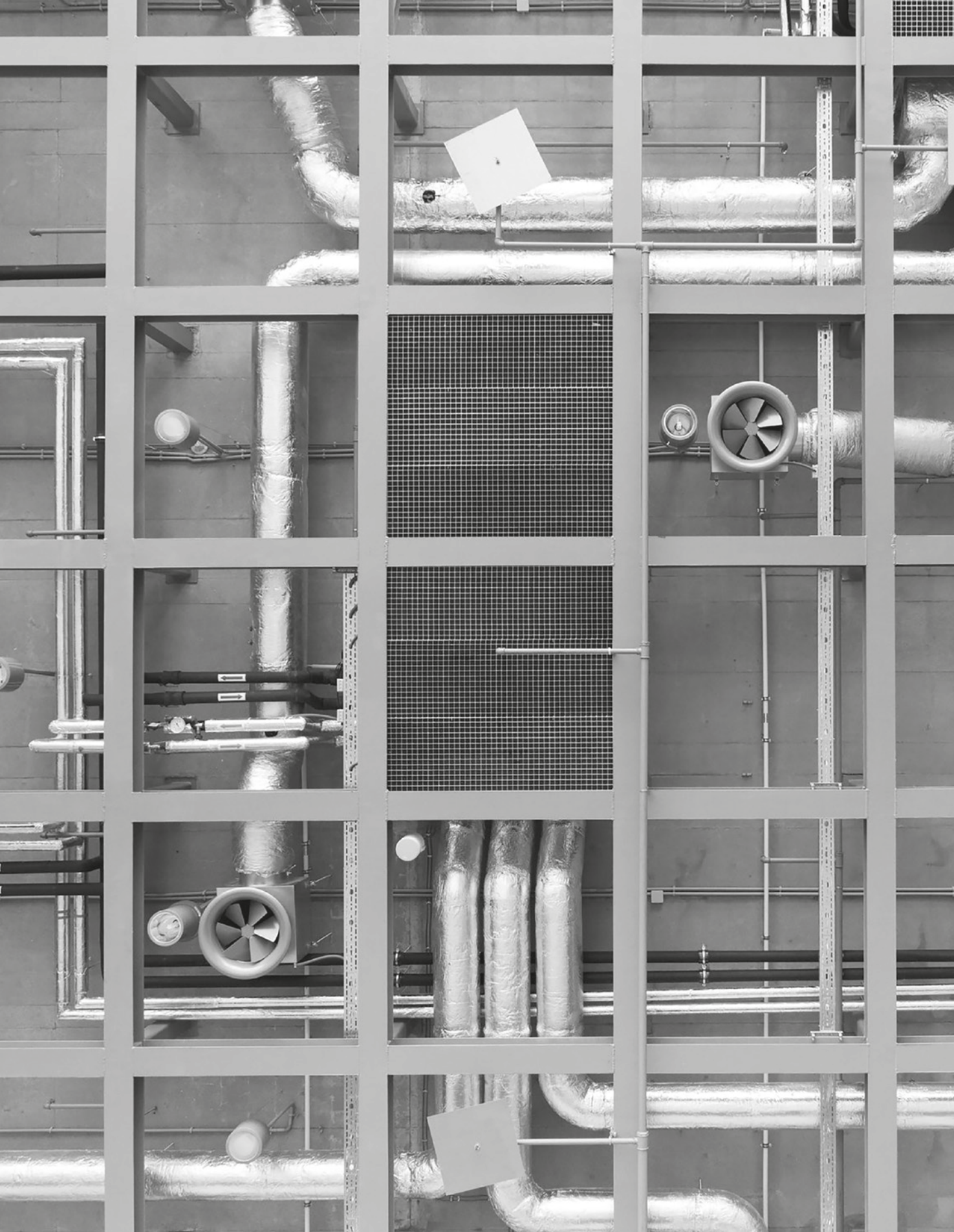
TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	82 mm - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Special design cardboard box
Reaction to Fire	Difficult to ignite
Certificates	M0 + M1 (France)

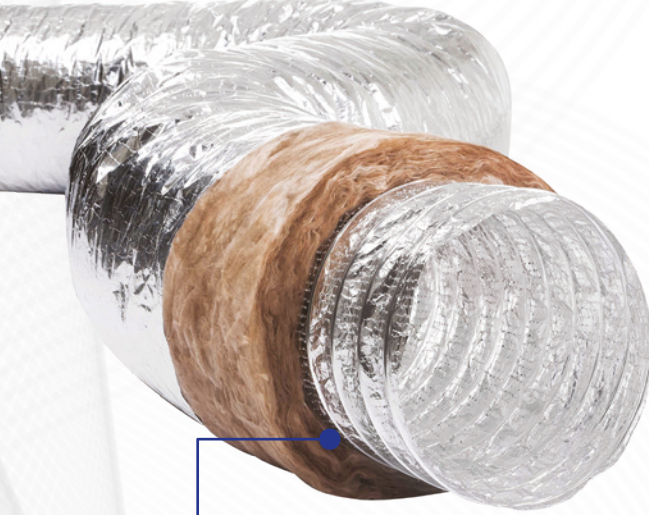
ecosoft
Naturally Different



*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)



SONOAFS-ALU.70 ECOSOFT



Class B - s1, d0
(EN 13501-1)

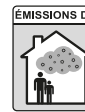
&M1



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 2 ply polyester [Perforated]
Nominal Thickness of Inner Duct	70 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	52 mm - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Special design cardboard box
Reaction to Fire	Difficult to ignite
Certificates	M1 (France) Class B - s1, d0 (EN 13501-1)

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A+
A+ A B C

*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

SONOAFS-ALU.F ECOSOFT



M0 + M1



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester [Perforated]
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	82 mm - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Special design cardboard box
Reaction to Fire	Difficult to ignite
Certificates	M0 + M1 (France)

ecosoft
Naturally Different



A+
A+ A B C

*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

ISOAFS-ALU.F PLUS

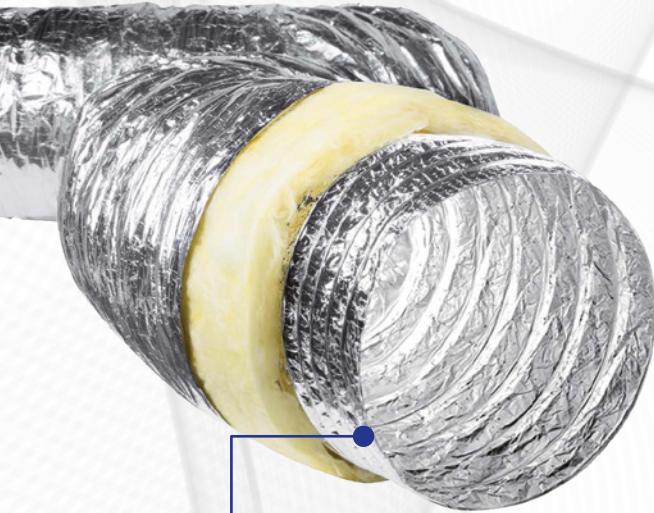


M0 + M0

TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness of Jacket	74 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	82 - 508 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	5 m
Packing	Special design cardboard box
Reaction to Fire	Limited combustibility
Certificates	M0 + M0 (France)

SONOAFS-ALU.F PLUS



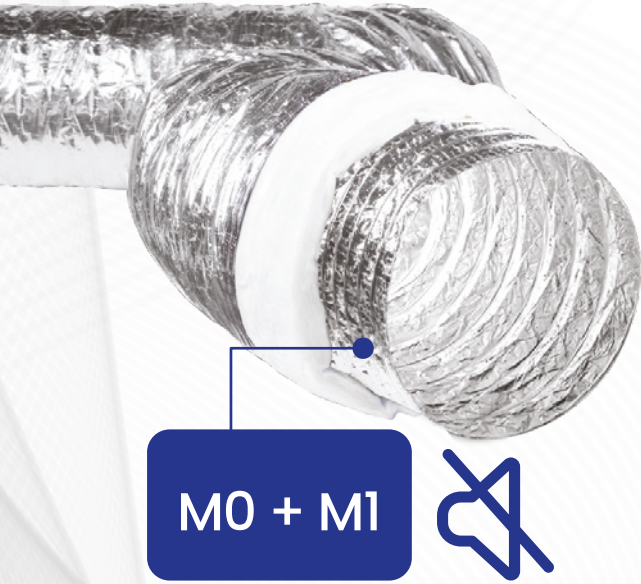
M0 + M0



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester [Perforated]
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness of Jacket	74 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (Ø)	82 - 508 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	5 m
Packing	Special design cardboard box
Reaction to Fire	Limited combustibility
Certificates	M0 + M0 (France)

SONOAFS-ALU.F.W



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester [Perforated]
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Unit Weight	Polyester fiber - 25 mm - 225 g/m ²
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +120 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	Inner core : M0 (France) Sleeve : M1 (France)

SONOAFS-NW.W



TECHNICAL SPECIFICATIONS

Inner Duct Construction	1 ply non-woven fabric
Nominal Thickness of Inner Duct	600 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Unit Weight	Polyester fiber - 25 mm - 225 g/m ²
Diameter Range (Ø)	52 - 560 mm
Wire Spacing	40 mm (ø ≥ 127 mm)
Operating Temp. Range	-20 °C / +120 °C
Air Velocity	20 m/s (max)
Operating Pressure	1500 Pa (max)
Standard Length	6 m
Packing	Single cardboard box

SOUNDROPAFS-NW



TECHNICAL SPECIFICATIONS

Inner Duct Construction	1 ply non-woven fabric (Sound absorbing material, hydrophobic)
Nominal Thickness of Inner Duct	600 micron
Diameter Range (Ø)	82-315 mm
Wire Spacing	40 mm (ø ± 127 mm)
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Collar Type	Metal (ø ≥ 200 mm) - otherwise plastic
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³ Glass wool - 50 mm - 16 kg/m³
Operating Temperature Range	-20 °C / + 120 °C
Air Velocity	20 m/s (max)
Operating Pressure	+1500 Pa (max)
Standard Length (Excluding Collar)	0,5 m / 0,6 m / 1 m / 1,2m / 2 m

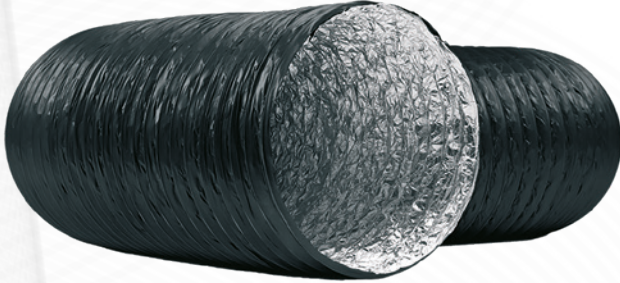
SOUNDROPAFS.P



TECHNICAL SPECIFICATIONS

Inner Duct Construction	1 ply corrugated aluminium [Perforated]
Nominal Thickness of Inner Duct	90 micron
Diameter Range (Ø)	82-315 mm
Jacket Construction	1 ply polyethylene
Nominal Thickness of Jacket	100 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³ Glass wool - 50 mm - 16 kg/m³
Operating Temperature Range	-25 °C / + 120 °C
Air Velocity	20 m/s (max)
Operating Pressure	+2000 Pa (max)
Standard Length (Excluding Collar)	0,5 m / 0,6 m / 1 m / 1,2 m / 2 m

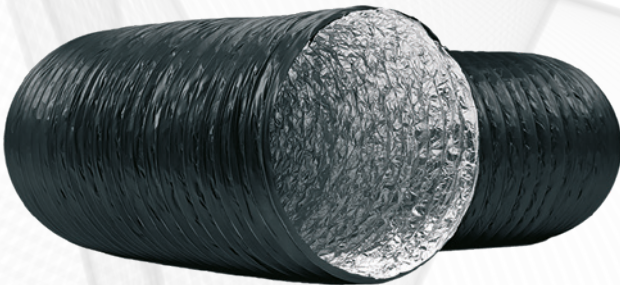
COMBIAFS



TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 2 ply polyester + 1 ply PVC
Nominal Thickness	150 micron
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	35 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Fire retardant
Available Options Upon Request	Customized lengths, Private labeling Grey color, White color
Certificates	BS 476 Part 6 & Part 7  

COMBIAFS.S



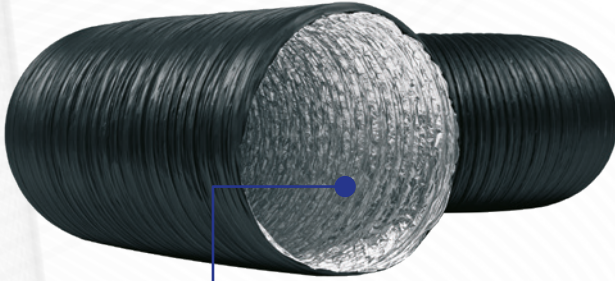
TECHNICAL SPECIFICATIONS

Duct Construction	1 ply aluminium + 1 ply polyester + 1 ply PVC
Nominal Thickness	110 micron
Diameter Range (Ø)	82 - 508 mm
Wire Spacing	40 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +120 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	 

COMBIAFS FORTE

TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 2 ply polyester + 1 ply PVC
Nominal Thickness	150 micron
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	18 mm (Ø ≥ 102 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Fire retardant
Available Options Upon Request	Customized lengths, Private labeling Grey color
Advantages	Low pressure loss, Minimum sag, High Durability
Certificates	BS 476 Part 6&7  



BS 476 Part 6&7

COMBIAFS FORTE GREY

TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 2 ply polyester + 1 ply PVC
Nominal Thickness	150 micron
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	18 mm (Ø ≥ 102 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Fire retardant
Available Options Upon Request	Customized lengths, Private labeling
Advantages	Low pressure loss, Minimum sag, High Durability



PVCAFS

TECHNICAL SPECIFICATIONS

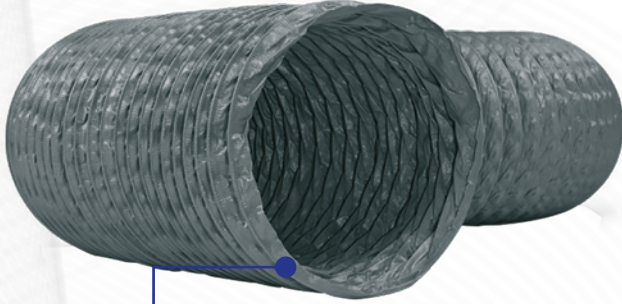
Duct Construction	1 ply PVC coated polyester fabric
Nominal Thickness	220 micron
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	55 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +70 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	6 m
Packing	Single cardboard box
Available Options Upon Request	Insulated type, Rectangular type Customized lengths, Bulk packing
Certificates	DIN 4102-B2 (Raw material)  

PVCAFS HEAVY

TECHNICAL SPECIFICATIONS

Duct Construction	1 ply PVC coated polyester fabric
Nominal Thickness	220 micron
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	20 mm (Ø ≥ 68 mm)
Operating Temp. Range	-30 °C / +70 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	6 m
Packing	Single cardboard box
Advantages	Suitable for negative pressure applications.
Certificates	 

PVCAFS.M1



Class B, s2, d0
(EN 13501-1:2018)

&M1

TECHNICAL SPECIFICATIONS

Duct Construction	PVC coated polyester mesh fabric
Nominal Thickness	330 micron
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	55 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +70 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	6 m
Packing	Special design cardboard box
Available Options Upon Request	Insulated type, Rectangular type Customized lengths, Bulk packing
Certificates	M1 (France) Raw material Class B, s2, d0 (EN 13501-1:2018)  

PEAFS



Class 1

TECHNICAL SPECIFICATIONS

Duct Construction	1 ply PE
Nominal Thickness	100 micron
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	55 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +70 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	Class 1

ISOAFS PE



Class 1

TECHNICAL SPECIFICATIONS

Inner Duct Construction	1 ply PE
Nominal Thickness of Inner Duct	100 micron
Jacket Construction	1 ply PE
Nominal Thickness of Jacket	100 micron
Insulation - Thickness - Density	Yellow glass wool - 25 mm - 16 kg/m ³
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	55 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +70 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	Class 1

ISOAFS PE.W



Class 1

TECHNICAL SPECIFICATIONS

Inner Duct Construction	1 ply PE
Nominal Thickness of Inner Duct	100 micron
Jacket Construction	1 ply PE
Nominal Thickness of Jacket	100 micron
Insulation - Thickness - Density	Polyester Fiber-25 mm - 225 g/m ³
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	55 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +70 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	Class 1

VINYLAFS



TECHNICAL SPECIFICATIONS

Duct Construction	1 ply PVC
Nominal Thickness	60 micron
Diameter Range (Ø)	82 - 203 mm
Wire Spacing	45 mm (Ø ≥ 127 mm)
Operating Temp. Range	-20 °C / +70 °C
Air Velocity	20 m/s (max)
Operating Pressure	1500 Pa (max)
Standard Length	6 m
Packing	Special design cardboard box
Reaction to Fire	Fire retardant
Available Options Upon Request	White, grey and black color options, Rectangular type, Customized lengths Plastic bag packing Bulk packing, Shrink packing, Net packing KIT applications

Certificates



ISOAFS-VINYL



TECHNICAL SPECIFICATIONS

Inner Duct Construction	1 ply PVC
Nominal Thickness of Inner Duct	60 micron
Jacket Construction	1 ply PE
Nominal Thickness of Jacket	50 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 14 kg/m³
Diameter Range (Ø)	82 - 203 mm
Wire Spacing	45 mm (Ø ≥ 127 mm)
Operating Temp. Range	-20 °C / +70 °C
Air Velocity	20 m/s (max)
Operating Pressure	+1500 Pa (max)
Standard Length	6 m
Packing	Net packing
Available Options Upon Request	Customized lengths, White PVC color White polyester insulation, 50 mm Glass wool insulation

Certificates



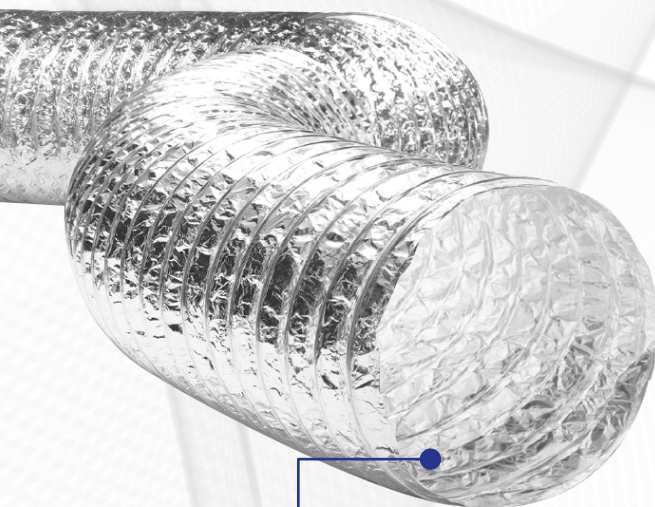
ISOAFS-ALU UL



TECHNICAL SPECIFICATIONS

Inner Core	2 ply polyester film + 1 ply aluminium film Encapsulated zinc coated steel wire helix
Vapor Barrier	Fiberglass reinforced multilayer aluminium/ polyester
Nominal Diameter (Inches)	2" / 2,6" / 3,2" / 4" / 5" / 6" / 7" / 8" / 9" / 10" / 12" / 14" / 16" / 18"
Wire Spacing	40 mm ($\phi \geq 127$ mm)
Operating Temp. Range	-18 °C / +130 °C (0 °F / 265 °F)
Insulation - Thickness - Density	Ecosoft, formaldehyde free - 25 mm - 20 kg/m ³ Ecosoft, formaldehyde free - 50 mm - 20 kg/m ³
Flame Spread Index	< 25
Smoke Developed Index	< 50
Max. Rated Velocity	15 m/s (3000 ft / min)
Max. Rated Positive Pres.	+3000 Pa (max) (12 in WC)
Max. Rated Negative Pres.	150 Pa (0.6 in WC)
R-Value	4.2 (10 °C)
R-Value (50 mm)	8.4 (10 °C)
Standard Length	7,6 m (25 ft)
Packing	1 piece per poly-bag / 1 piece per carton
Certificates	UL 181 

ALUAFS.70 UL (AIR CONNECTOR)



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 2 ply polyester
Nominal Thickness of Duct	70 micron
Diameter Range (Ø)	2" - 10"
Wire Spacing	35 mm ($\phi \geq 127$ mm)
Operating Temp. Range	-18 °C / +130 °C (0 °F / 265 °F)
Flame Spread Index	< 25
Smoke Developed Index	< 50
Air Velocity	30 m/s (max) (5910 ft/min)
Operating Pressure	+3000 Pa (max)
Reaction to Fire	Difficult to ignite
Standard Length	For installation in lengths not over 14 ft 7,6 m (25 ft)
Packing	Single cardboard box
Certificates	UL 181 Listed Class 1 Air Connector 

**UL 181
CLASS 1**

ISOAFS POLY ECOSOFT

TECHNICAL SPECIFICATIONS

Inner Duct Construction	2 ply black polyester
Nominal Thickness of Inner Duct	30 micron
Jacket Construction	2 ply metallized polyester
Nominal Thickness of Jacket	30 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m ³
Diameter Range (Ø)	82 - 508 mm
Wire Spacing	50 mm (Ø ≥ 140 mm)
Operating Temp. Range	-30 °C / +120 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	7.6 m
Packing	Single cardboard box
Available Options Upon Request	White polyester insulation 40 & 50 mm Glass wool insulation PE jacket



ISOAFS POLY 181

TECHNICAL SPECIFICATIONS

Inner Duct Construction	2 ply black polyester
Nominal Thickness of Inner Duct	30 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m ³
Diameter Range (Ø)	82 - 508 mm
Wire Spacing	Wire Spacing 30mm (< Ø127 mm) 40 mm (Ø127-Ø152 mm) 50 mm (≥ Ø152 mm)
Operating Temp. Range	-30 °C / +120 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	7.6 m
Packing	Single cardboard box
Certificates	UL 723 (Flame Spread Index < 25, Smoke Developed Index < 50)



ISOAFS-ALU SHINE



TECHNICAL SPECIFICATIONS

Inner Duct Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Inner Duct	45 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 14 kg/m³
Diameter Range (Ø)	52 - 800 mm
Wire Spacing	40 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +120 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	M1 (France) UL 723 (Flame Spread Index < 25, Smoke Developed Index < 50)
	REACH COMPLIANT
	RoHS COMPLIANT

SONOAFS-ALU SHINE ECOSOFT



TECHNICAL SPECIFICATIONS

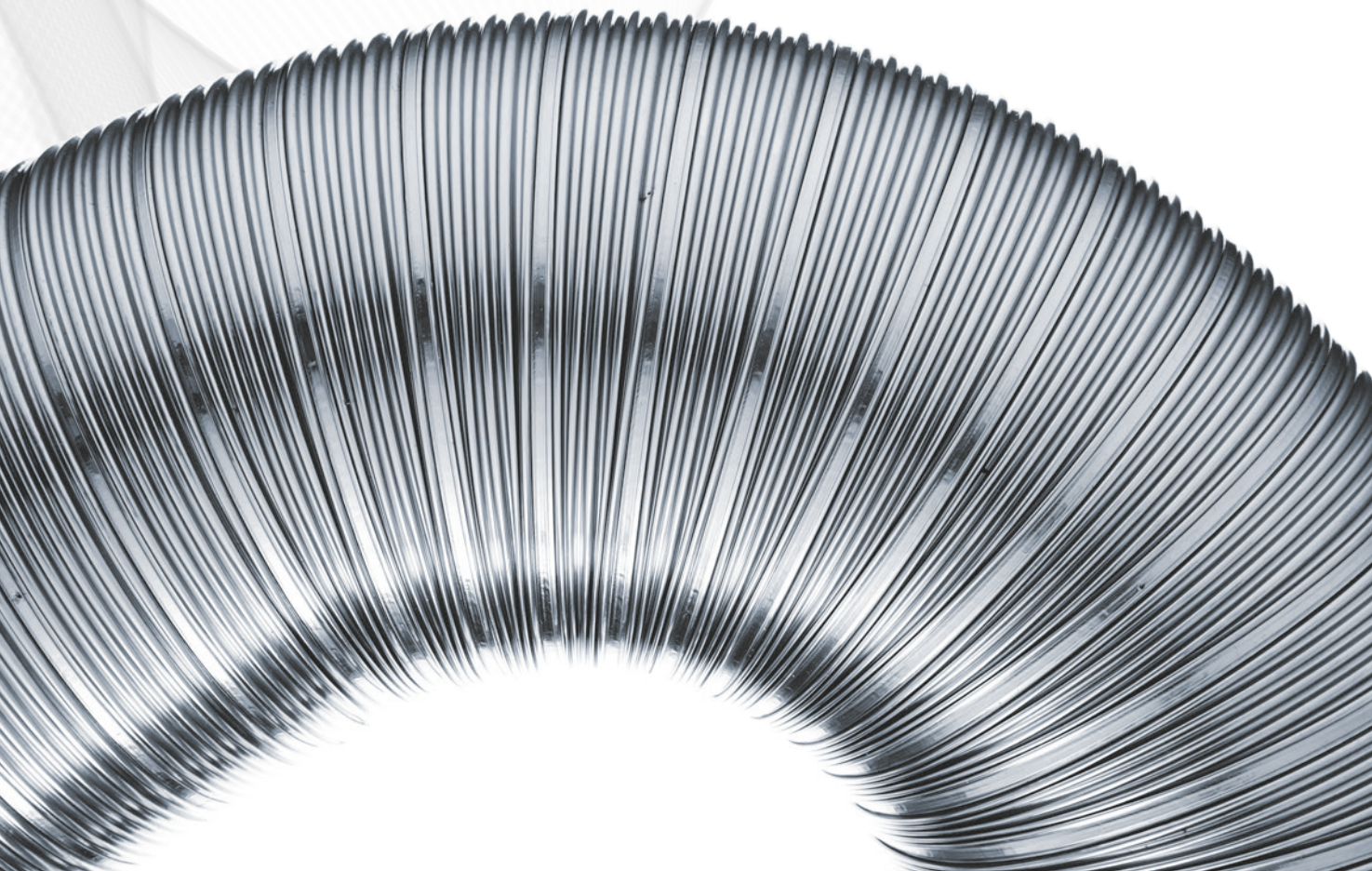
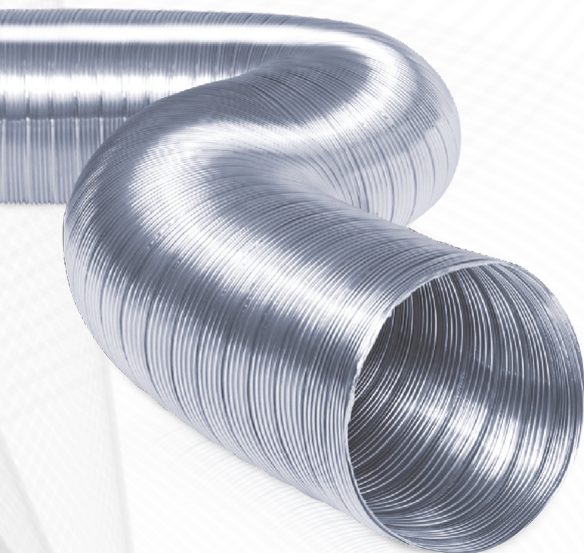
Inner Duct Construction	1 ply aluminium + 2 ply polyester] perforated
Jacket Construction	1 ply aluminium + 2 ply polyester
Insulation	Glasswool
Insulation Color	Brown
Insulation Density / Thickness	14 kg/m³, 25 mm
Inner Duct Thickness	45 µ
Jacket Thickness	45 µ
Wire	Coated steel wire Bronze sil
Diameter Range (Ø)	82 - 508 mm
Wire Spacing	Ø82 - Ø112 - 30 mm ≥ Ø127 - 40 mm
Temperature Range	-30 °C / +120 °C
Max. Rated Velocity	30 m/s
Max. Rated Positive Pressure	3000 Pa
Standard Length	10 m
Packing	Single cardboard box
Certificates	M1 (France) EN 13501-1 Class B-s1 d0
	REACH COMPLIANT
	RoHS COMPLIANT

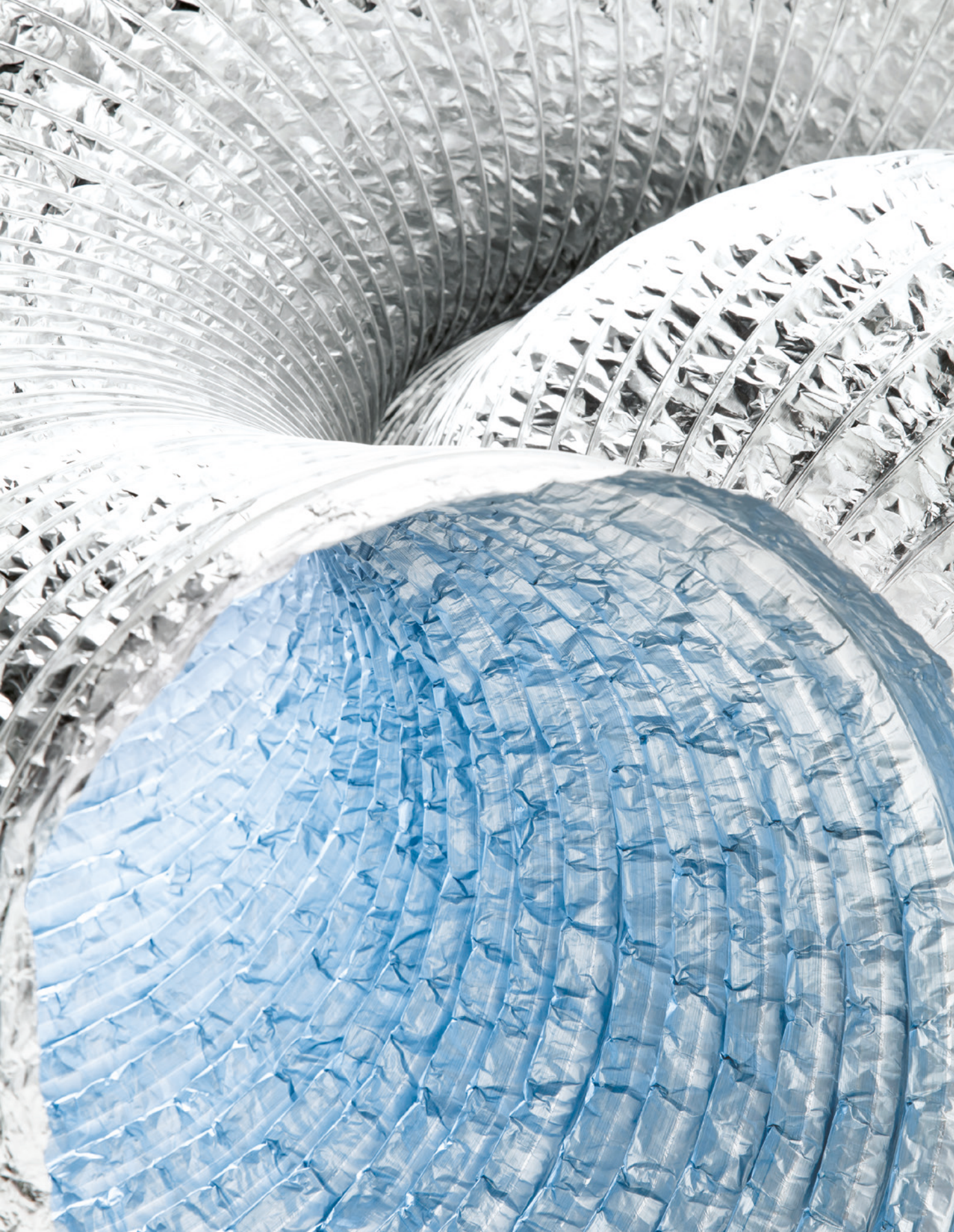
we deliver fresh air

SEMIAFS

TECHNICAL SPECIFICATIONS

Duct Construction	Corrugated aluminium continuous system
Nominal Thickness	90 micron
Diameter Range (Ø)	80 - 800 mm
Operating Temp. Range	-25 °C / +250 °C
Air Velocity	25 m/s (max)
Operating Pressure	+5000 Pa (max)
Standard Length	1.5 m / 3.0 m / 5.0 m Fully extended
Packing	Single nylon package (Bulk packing)
Reaction to Fire	Non-combustible
Available Options Upon Request	Customized lengths, 120 micron aluminium, Bulk packing
Certificates	Class A1 (EN 13501-1) Flame Spread Index: 5 Smoke Developed Index: 0 [UL 723 as per UL 181] Letter / MED approval without testing





ANTIMICROBIAL NANO TECHNOLOGY

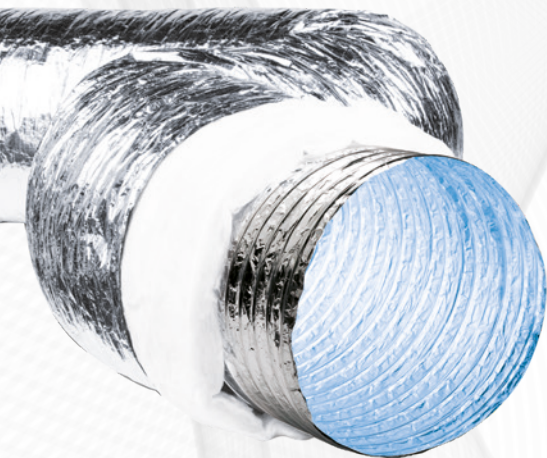


Antimicrobial nano-sized silver particles are encapsulated in a polymer capsule.

Nano-sized polymer capsules;

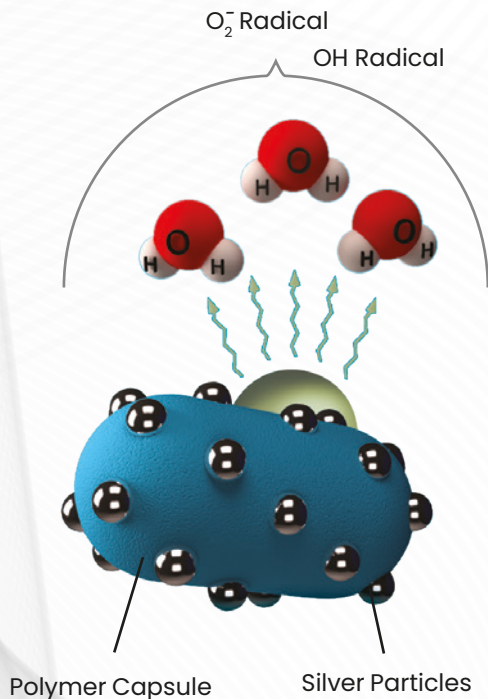
- Safe and healthy antimicrobial agent,
- Strongly antibacterial,
- Strongly antifungal,
- Totally ecological, non-toxic, no odor and harmful effects on environment,
- There is no release of silver ions on the surface, long-lasting antimicrobial performance...

CATALYTIC MECHANISM



Silver atoms radiate energy in narrow wavelengths which leads to formation of O_2 and OH radicals that terminates the pathogens. As there is no specific killing mechanism for pathogens in this catalytic mechanism, microorganisms can't develop immunity against the antimicrobial capsules.

ANTIMICROBIAL FLEXIBLE AIR DUCTS



The existence of microorganisms, such as mold and bacteria has been well documented in ventilation systems. Humid and dark ambient of ventilation systems represent suitable environment for microbial growth.

The exposure through breathing of indoor air can lead to respiratory problems, infectious disease or other allergic reactions and various human healthy effects.

AFS has come up with a new hygienic solution, developed with State-Of-The-Art technology. It will be major component of safe ventilation system that protects your indoor air quality.

ANTIMICROBIAL CAPACITY

Silver has long history as a natural antimicrobial agent in human health care. Based on many scientific experiments, silver particles are effective for over 600 microorganism species. However, all nano-silver technologies don't have the same antimicrobial effectiveness.

AFS HYGIENE Flexible Air Ducts are produced with the latests antimicrobial Silver technology in order to obtain maximum anti-microbial capacity, healthy and ecological solution.

Microorganisms									
	Legionella Pneumophila	E. Coli	P. Aeruginosa	S. Aureus	Aspergillus Niger	Paecilomyces Variotti	Chaetomium Globosum	Gliocladium Virens	Aureobasidium Pullulans
Type	Gram (-) bacteria	Gram (-) bacteria	Gram (-) bacteria	Gram (+) bacteria	Mold (fungus)	Mold (fungus)	Mold (fungus)	Mold (fungus)	Mold (fungus)
Test	ISO 22196	ISO 22196	ISO 22196	ISO 22196	ASTM G21	ASTM G21	ASTM G21	ASTM G21	ASTM G21
Anti-microbial Performance	> 99,99 Bacteria Reduction -- 0 Mold Growth								
Certified by	IMSL (UK), Eurofins Lab (Italy), Fiti Testing & Research Institute (Korea)								

ISOAFS-ALU HYGIENE ECOSOFT



Hygiene

TECHNICAL SPECIFICATIONS

Inner Core Configuration	3 ply Aluminum + 2 ply Polyester + Hygiene Coating
Jacket Configuration	1 ply Aluminum + 2 ply Polyester
Insulation	Glass Wool
Wire	Coated steel wire
Inner Duct Thickness	70 µ + Hygiene Coating
Jacket Thickness	45 µ
Insulation Color	Brown
Insulation Unit Weight / Thickness	16 kg/m3, 25 mm
Temperature Range	- 30 °C / + 150 °C
Max. Rated Velocity	30 m/s
Max. Rated Possitive Pressure	3000 Pa
Available Diameters	82 mm - 508 mm
Length	10 m
Packing	Single Cardboard Box
Certificate	IMSL (UK) CLASS C (EN 13501-1)

ALUAFS.F HYGIENE



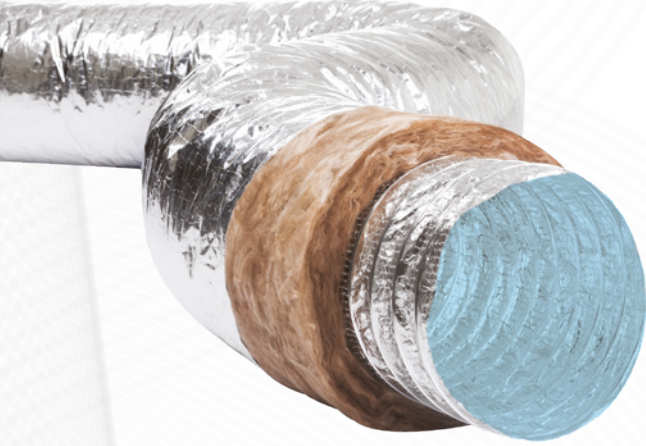
M0

TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 1 ply polyester + Hygiene coating
Nominal Thickness	81 micron + Hygiene coating
Diameter Range (Ø)	102 - 800 mm
Wire Spacing	35 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Special design cardboard box
Certificates	M0 (France) IMSL (UK) Eurofins Biolab (Italy) Fiti Testing & Research Institute (Korea)

Hygiene

SONOAFS-ALU HYGIENE ECOSOFT



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 2 ply polyester [Perforated] Hygiene coating
Nominal Thickness of Inner Duct	70 micron + Hygiene coating
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Insulation Color	Brown
Diameter Range (Ø)	102-800 mm
Wire Spacing	35 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	IMSL (UK)

Hygiene **ECOSOFT**
Naturally Different

SONOAFS-ALU HYGIENE.W



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 2 ply polyester [Perforated] Hygiene coating
Nominal Thickness of Inner Duct	70 micron + Hygiene coating
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Polyester fiber - 25 mm - 225 g/m²
Insulation Color	White
Diameter Range (Ø)	102-800 mm
Wire Spacing	35 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +120 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Certificates	IMSL (UK)

Hygiene

**“ marine
certified ”**



ALUAFS.F MARINE



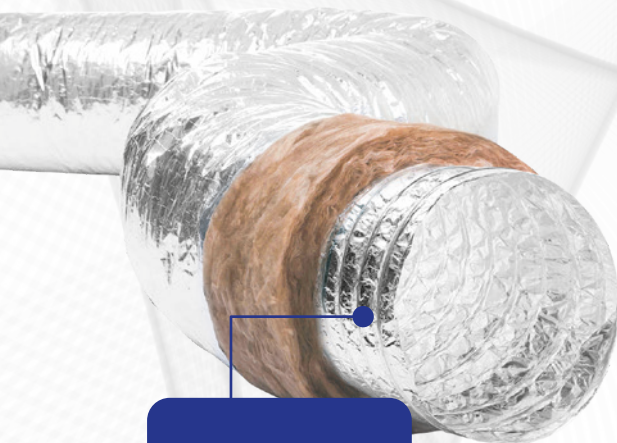
M0



TECHNICAL SPECIFICATIONS

Duct Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness	74 micron
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	35 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Individual cardboard box Single cardboard box
Reaction to Fire	Limited combustibility
Certificates	M0 (France) [CSTB] 164.112/2812/ERO MED0492 

ISOAFS-ALU.F ECOSOFT MARINE



M0 + M1



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester
Nominal Thickness of Inner Duct	74 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25mm - 16 kg/m³
Diameter Range (Ø)	82 - 800 mm
Wire Spacing	35 mm (Ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +250 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Individual cardboard box Single cardboard box
Reaction to Fire	Limited combustibility
Certificates	M0 + M1 (France) [CSTB] 164.112/2812/ERO MED0495 



*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

SONOAFS-ALU.FB ECOSOFT MARINE



M0 + M1



Barrier



TECHNICAL SPECIFICATIONS

Inner Duct Construction	3 ply aluminium + 1 ply polyester [Perforated]
Nominal Thickness of Inner Duct	74 micron
Barrier Construction	1 ply polyethylene
Barrier Thickness	12 micron
Outer Jacket Construction	1 ply aluminium + 2 ply polyester
Nominal Thickness of Jacket	45 micron
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Diameter Range (ø)	82 - 800 mm
Wire Spacing	35 mm (ø ≥ 127 mm)
Operating Temp. Range	-30 °C / +150 °C
Air Velocity	30 m/s (max)
Operating Pressure	+3000 Pa (max)
Standard Length	10 m
Packing	Single cardboard box
Reaction to Fire	Difficult to ignite
Certificates	M0 + M1 (France) 164.112/2812/ERO MED0494

ecosoft
Naturally Different



*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

SLEEVEAFS.B ECOSOFT MARINE



Jacket
Glass Wool
Barrier



TECHNICAL SPECIFICATIONS

Diameter Range (ø)	82 - 508 mm
Standard Length	10 m
Barrier type	Polyethylene
Barrier Thickness	12 micron
Jacket Construction	1 ply aluminium + 2 ply polyester
Jacket Thickness	45 micron
Temperature Range	-30 °C / +90 °C
Insulation - Thickness - Density	Glass wool - 25 mm - 16 kg/m³
Certificates	164.112/2812/ERO MED0493

ecosoft
Naturally Different



*Information on the emission level of volatile substances into indoor air, presenting a risk of toxicity by inhalation, on a scale ranging from A+ (very low emissions) to C (high emissions)

TPU INDUSTRIAL HOSE



Woodworking & Furniture Industry



Chemical Industry (Plants)



Paper Industry



Pharmaceutical Industry



Quarries
(Rocket Support Mining)



Glass & Ceramics Industry



Sweeper Machines

AFSTPU (STANDARD)



POLYURETHANE INDUSTRIAL HOSE

PROPERTIES

- PVC free
- Phthalate free
- High flow rate
- Long shelf life
- Gas and liquid tight
- Chemical resistance
- B1 class fire resistant (only 0.5 - 1.00 mm thickness range)
- Clean core tubes (non-contaminating)
- High elasticity over the entire hardness range
- Excellent resistance to oils, grease and many solvents
- Superior abrasion resistance

TECHNICAL SPECIFICATIONS

Wall	Thermoplastic ester based PU (For dry food contact)
Thickness	0.4 - 0.5 - 0.7 - 1.0 mm
Color	Transparent
Abrasion Resistance	30-40 mm ³ (ISO 4649)
Wire	Coated spring steel wire
Diameter Range (Ø)	30 - 500 mm
Operating Temperature Range	-40 °C / +90 °C short term: 125 °C (tested for 4 hours)
Standard Length	6 m / 10 m
Packing	Transparent plastic bag
Certificates	DIN 4102-1 B1
Application Notes	For hydrolytic resistance, wall thickness should be ≥ 1 mm. Not suitable for long-term, continuous liquid contact.

AFSTPU (FOODGRADE)



TECHNICAL SPECIFICATIONS

Wall	Thermoplastic ester based PU (Suitable for dry food contact)
Thickness	0.4 - 0.5 - 0.7 - 1.0 mm
Color	Transparent
Wire	Coated spring steel wire
Diameter Range (Ø)	30 - 500 mm
Operating Temperature Range	-40 °C / +90 °C
Standard Length	6 m / 10 m
Packing	Transparent plastic bag
Certificates	Food-grade approved by an independent testing laboratory for the complete hose according to the European Union's EC 1935/2004 and EU 10/2011 directives, the latest EU Directive 2015/174, FDA 21 CFR 177.2600, and microbe resistance. Approval according to EC 1935/2004 and EU 10/2011 (food simulants A, B, D2, E).
Application Notes	For hydrolytic resistance, wall thickness should be ≥ 1 mm. Not suitable for long-term, continuous liquid contact.

AFSTPU (ANTISTATIC) ⚡



TECHNICAL SPECIFICATIONS

Wall	Thermoplastic ester based PU
Thickness	0.4 - 0.5 - 0.7 - 1.0 - 1.4 - 2.0 mm
Color	Transparent
Wire	Coated spring steel wire
Diameter Range (Ø)	30 - 500 mm
Operating Temperature Range	-40 °C / +90 °C
Standard Length	6 m / 10 m
Packing	Transparent plastic bag
Application Notes	For hydrolytic resistance, wall thickness should be ≥ 1 mm. Not suitable for long-term, continuous liquid contact.

AFSTPVC



TECHNICAL SPECIFICATIONS

Wall	Thermoplastic PVC
Thickness	0.4 - 0.5 - 0.7 - 1.0 mm
Color	Black / Transparent
Wire	Coated spring steel wire
Diameter Range (Ø)	50 - 500 mm
Operating Temperature Range	-40 °C / +70 °C
Standard Length	6 m / 10 m
Packing	Transparent plastic bag

NEGATIVE PRESSURE DURABILITY FOR AFS TPU(STANDARD)

Diameter (mm)	Wire Pitch (mm)	Wire diameter (mm)	Negative pressure (Pa) (Vacuum)*		
			TPU 05	TPU 07	TPU 10
30	16	1,5	26304	27746	27868
35	16	1,5	25904	27493	27639
40	16	1,5	25500	27207	27382
45	16	1,5	25089	26889	27093
50	20	1,5	24671	26536	26775
60	20	1,5	23821	25736	26039
64	20	1,5	23475	25375	25711
70	20	1,8	22950	24800	25182
76	20	1,8	22414	24175	24607
80	25	1,8	22050	23732	24196
90	25	1,8	21132	22536	23089
100	25	1,8	20186	21204	21857
110	25	1,8	19218	19739	20496
115	25	1,8	18729	18957	19771
120	25	1,8	18107	18146	19014
127	25	1,8	15714	15982	16921
130	25	1,8	15000	15371	16225
140	25	1,8	13450	13496	14107
153	30	2,0	11196	11854	12264
160	30	2,0	9432	10407	10661
180	30	2,0	6900	8025	8057
203	30	2,0	4950	5714	5757
225	30	2,0	3814	4214	4289
250	30	2,0	2882	2929	3021
279	30	2,0	1964	2000	2014
305	30	2,0	1429	1464	1500

The working vacuum pressure declared in this guidelines is obtained with testing vacuum pressure divided by 2.5. The working vacuum pressure data represents the standart condition ; e.g 25°C. Due to the difficulty in describing all operation conditions and testing the hose for various applications; the user should consider bigger safety factor for strong operating field.

AFSTPU APPLICATION AREAS

TYPES	TPU 04	TPU 05	TPU 07	TPU 10
Wood preparation machines			✓	✓
Refuse collection vehicles	✓	✓	✓	✓
Paint Industry	✓	✓	✓	✓
Glass particles transportation			✓	✓
Glass & Rock wool transportation	✓	✓	✓	✓
Grass cutting devices	✓	✓	✓	✓
Cement transportation			✓	✓
Suction/ Transport for high abrasive materials			✓	✓
Iron & Steel industry			✓	✓
Discharge units	✓	✓	✓	✓
Foundries			✓	✓
Smoke & Polluted air exhaust	✓	✓	✓	✓
Industrial vacuum cleaners	✓	✓	✓	✓
Fan hoses	✓	✓	✓	✓
Cesspit and waste water treatment plant	✓	✓	✓	✓
Suction/ Transport for light & medium abrasive materials	✓	✓	✓	✓
Heating, Cooling & Ventilation	✓	✓	✓	✓
Cuttle units	✓	✓	✓	✓
Paper Industry	✓	✓	✓	✓
Welding works	✓	✓	✓	✓
Chemicals transportation	✓	✓	✓	✓
Tile Industry			✓	✓
Control cabinets	✓	✓	✓	✓
Sand transportation			✓	✓
Quartz works			✓	✓
Small particles transportation	✓	✓	✓	✓
Harbour installations	✓	✓	✓	✓
Gravel transportation			✓	✓
Grass transportation	✓	✓	✓	✓
Metal chips and dusts transportation	✓	✓	✓	✓
Automotive industry	✓	✓	✓	✓
Packaging technology	✓	✓	✓	✓
Pump hoses	✓	✓	✓	✓
Spray dispensation	✓	✓	✓	✓
Rail cleaning	✓	✓	✓	✓
Chaff extraction	✓	✓	✓	✓
Ceramic industry			✓	✓
Quarries			✓	✓
Fresh air units	✓	✓	✓	✓
Textile fibre transportation	✓	✓	✓	✓
Textile industry	✓	✓	✓	✓
Dockyard industry	✓	✓	✓	✓
Dust extraction	✓	✓	✓	✓
Surface cleaning	✓	✓	✓	✓



AFS PCA

NEW

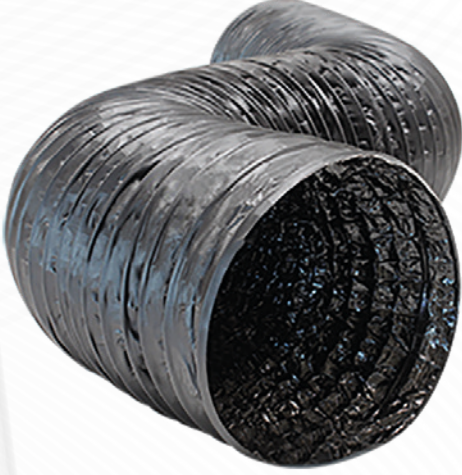


It is produced to be used for the transfer of hot or cold air in the environments that require mobility, especially in the aviation sector. In addition, thanks to its zippered and impact-resistant structure it provides ease of solution in long-length applications such as mining and tunnel ventilation. The zippered structure, by making it disassembled, helps to store the product after use.

Product Description	Hose made of single layer PVC fabric
Thickness	Fabric: 750-1100 DTEX / Wear Belt: 0,5 mm
Connection Style	Zippered
Wirepitch	Ø 152 - 185: 55 mm / Ø 203 - 710: 75 mm
Diameter Range	152 - 710 mm
Temperature Range	-30°C / +70°C
Operating Pressure	+3000 Pa (Max)
Material Type and Color	Fabric: PVC (Yellow) / Wear Belt: PU (Black)
Packing	Single Cardboard Box
Application Ranges	Construction Site Heating, Drying of Buildings, Drying Grain, Blower Hose, Hot Air, Heating Fans, Hay Blowers, Fan Hose, Air-Conditioning And Ventilation Technology, Drying Technology, Hot Air Hoses, Wind Generator Plants, Shipyards, Ventilation, Ventilation, Tent Heating, Tent Air-Conditioning.



HYDROPONIC COMBIAFS.S BLACK



TECHNICAL SPECIFICATIONS

Duct Construction	2 ply polyester (Black) + 1 ply aluminium + 1 ply PVC (Black)
Nominal Thickness	125 micron
Diameter Range (Ø)	102 - 508 mm
Wire Spacing	40 mm (≥ Ø 127 mm)
Color	Black (Outer Face) Black (Inner Face)
Operating Temp. Range	-30°C / +120°C
Air Velocity	30 m/s (max.)
Operating Pressure	+3000 Pa (max.)
Standard Length	5 m / 10 m
Packing	Single Box
Application Areas	Ventilation heating and cooling Hydroponic ventilation Indoor agriculture Grow rooms Low and medium pressure applications Applications where mechanical strength against exterior influences is required

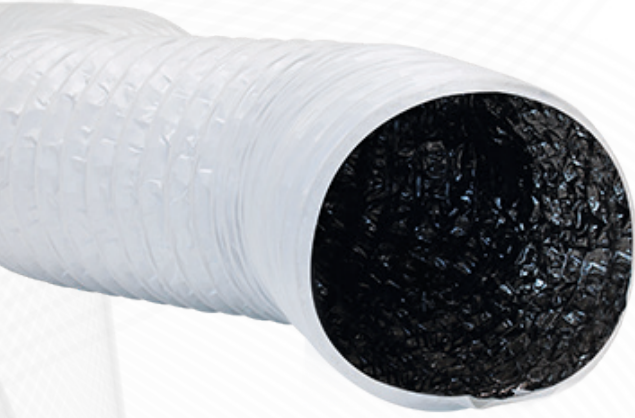
HYDROPONIC ALUAFS



TECHNICAL SPECIFICATIONS

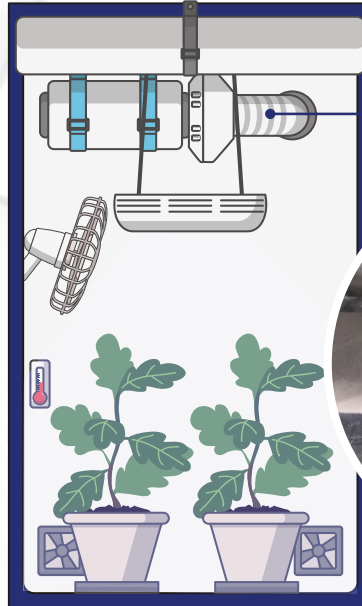
Duct Construction	2 ply polyester (Black) + 1 ply aluminium
Nominal Thickness	45 micron
Diameter Range (Ø)	102 - 508 mm
Wire Spacing	40 mm (≥ Ø 127 mm)
Color	Aluminium (Outer Face) - Black (Inner Face)
Operating Temp. Range	-30 °C / +120 °C
Air Velocity	30 m/s (max.)
Operating Pressure	+3000 Pa (max.)
Standard Length	5 m / 10 m
Packing	Single Box
Application Areas	Ventilation heating and cooling Hydroponic ventilation Indoor agriculture Grow rooms Low and medium pressure applications

HYDROPONIC COMBIAFS.S WHITE



TECHNICAL SPECIFICATIONS

Duct Construction	2 ply polyester (Black) + 1 ply aluminium + 1 ply PVC (White)
Nominal Thickness	115 micron
Diameter Range (Ø)	102 - 508 mm
Wire Spacing	40 mm (≥ Ø 127 mm)
Color	White (Outer Face), Black (Inner Face)
Operating Temp. Range	-30°C / +120°C
Air Velocity	30 m/s (max.)
Operating Pressure	+3000 Pa (max.)
Standard Length	5 m / 10 m
Packing	Single Box
Application Areas	Ventilation heating and cooling Hydroponic ventilation Indoor agriculture Grow rooms Low and medium pressure applications Applications where mechanical strength against exterior influences is required





AFS[®]CONNECTOR

stability

AFSCONNECTOR



flexible duct connector

APPLICATION

- AFSCONNECTORS are specifically designed for heating, cooling, ventilation and air conditioning systems.
- AFSCONNECTORS are used to connect mechanical equipment and rigid air duct or two rigid air ducts, providing dampening against vibration and absorbing lateral movements.

GENERAL PROPERTIES

- AFSCONNECTORS are leak proof (airtight & waterproof).
- They are suitable for rectangular, oval and circular applications and easy to install.

LOCKING SYSTEM

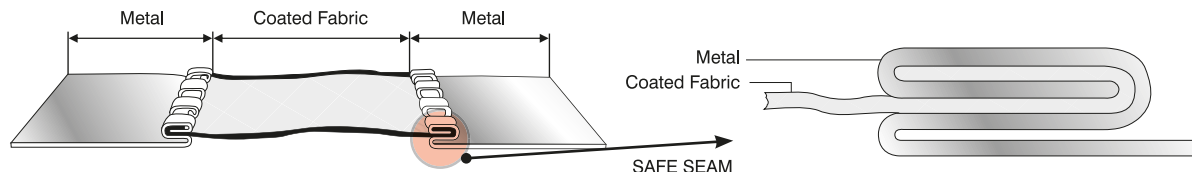
- AFSCONNECTORS are produced using a special SAFE SEAM technique from galvanized steel plate + coated fabric + galvanized steel plate. The SAFE SEAM clamp system ensures that the coated fabric and the galvanized steel plates are inseperable.

COATING TYPE

- AFSCONNECTORS can be produced of PVC, SILICONE, PU, NEOPRENE or CANVAS as per application requirements.

SPECIAL SIZE

- 100 x 120 x 100 mm AFSCONNECTOR's wide galvanized steel plates make it compatible with roll forming and flange manufacture systems.



SIZES						
Available Sizes (mm)	35 x 60 x 35	45 x 60 x 45	45 x 75 x 45	70 x 100 x 70		
*Special Sizes (mm)	45 x 100 x 45	45 x 150 x 45	50 x 60 x 50	50 x 150 x 50	70 x 150 x 70	70 x 200 x 70

* Special sizes are subject to minimum order

Circular Polyurethane Connector Kit

In Order to Prevent Noise and Vibration

- AFS Circular Duct connector is the perfect solution for noise and vibration caused by ventilation equipment transmitted through air duct system.
- The Circular Connector is available in kit form with two fastening metal clamps in plastic bags.
- Certificate: EN-13501-1 A2 - PU raw material.



AVAILABLE DIAMETERS Ø (mm)

Ø 100	Ø 125	Ø 160	Ø 200	Ø 250	Ø 315	Ø 355	Ø 400	Ø 450	Ø 500	Ø 560	Ø 630	Ø 700	Ø 800
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All technical details on this leaflet are information purposes only and are subject to change without prior notice.

AFSCONNECTOR.PVCUL

TECHNICAL SPECIFICATIONS

Base Fabric

Polyester

Coating

PVC (Both sides)

Construction

Galvanized steel plate + Coated fabric +
Galvanized steel plate

Coated Fabric Weight

550 g/m² (16.2 oz/yd²)

Coated Fabric Thickness

450 micron (0.018 inch)

Tear Strength

weft = 180 N
warp = 250 N (EN ISO 4674-1 Method A)

Tensile Strength

weft = 1400 N
warp = 1500 N (EN ISO 1421 Method 1)

Color

Grey & Black

Temperature Range

-30 °C / +70 °C (-22 °F / +158 °F)

Fire Resistance

Fire retardant

Specifications

Suitable for general applications
UV resistant
Economical choice

Packing

Single cardboard box

Available Options Upon Request

0.7 mm (24 gauge) galvanized type Suitable for
protective systems in potentially explosive atmospheres

Certificates

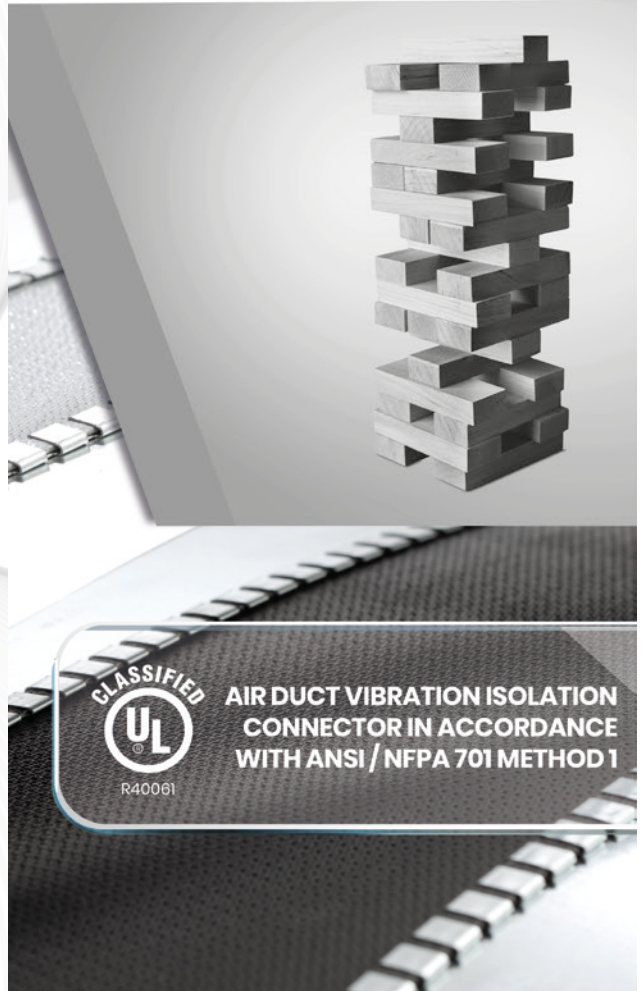
UL 723 (USA)

UL CLASSIFIED (ANSI/NFPA 701-METHOD 1)



AIR DUCT VIBRATION ISOLATION
CONNECTOR IN ACCORDANCE WITH
ANSI / NFPA 701 METHOD 1

Flexible Solutions for Stability



AFSCONNECTOR.NEOPRENEUL

TECHNICAL SPECIFICATIONS

Base Fabric

Fiberglass

Coating

Neoprene (Both sides)

Construction

Galvanized steel plate + Coated fabric +
Galvanized steel plate

Coated Fabric Weight

630 g/m² (18.6 oz/yd²)

Coated Fabric Thickness

450 micron (0.018 inch)

Tensile Strength

weft = 2900 N / 5 cm

warp = 3500 N / 5cm (EN ISO 13934-1)

Color

Black

Temperature Range

-30 °C / +100 °C (-22 °F / +212 °F)

Fire Resistance

Fabric: Difficult to ignite

Coating: Fire retardant

Specifications

Suitable for high velocity applications

High durability

Good chemical resistance (Alkalies & Gasoline)

Resistant to mildew

Packing

Single cardboard box

Available Options Upon Request

0.7 mm (24 gauge) galvanized type Suitable for
protective systems in potentially explosive atmospheres

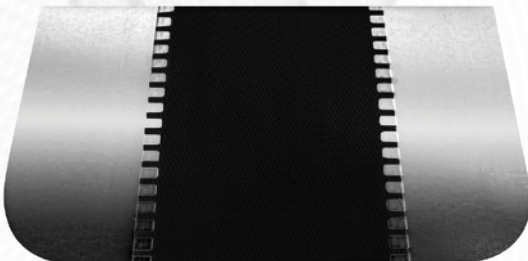
Certificates

UL 723 (Class 0) (USA)

UL CLASSIFIED (ANSI/NFPA 701-METHOD 1)



AIR DUCT VIBRATION ISOLATION
CONNECTOR IN ACCORDANCE WITH
ANSI / NFPA 701 METHOD 1



AFSCONNECTOR.SILICONEUL

TECHNICAL SPECIFICATIONS

Base Fabric

Fiberglass

Coating

Silicone (Both Sides)

Construction

Galvanized steel plate + Coated fabric +
Galvanized steel plate

Coated Fabric Weight

560 g/m² (16.5 oz/yd²)

Coated Fabric Thickness

430 micron (0.017 inch)

Tensile Strength

weft = 1900 N / 5 cm

warp = 2400 N / 5 cm (EN ISO 13934-1)

Color

Grey

Temperature Range

-30 °C / +250 °C (-22 °F / +482 °F)

Fire Resistance

Fabric: Difficult to ignite

Coating: Fire Retardant

Specifications

Suitable for high temperature applications

(+400 °C / 2 hours)

High resistance to ozone, aging and chemicals

Packing

Single cardboard box

Available Options Upon Request

0.7 mm (24 gauge) galvanized type Suitable for
protective systems in potentially explosive atmospheres

Certificates

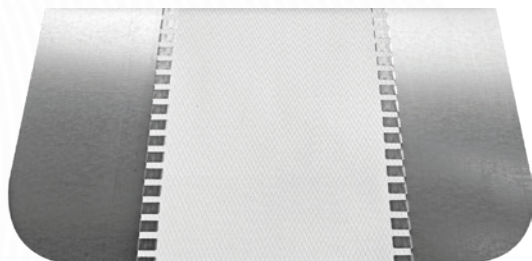
F400/120 min. (Spain)

UL CLASSIFIED (ANSI/NFPA 701-METHOD 1)

EN 13501-1 Class A2-S2, d0 (Raw material)



AIR DUCT VIBRATION ISOLATION
CONNECTOR IN ACCORDANCE WITH
ANSI / NFPA 701 METHOD 1



AFSCONNECTOR.PVC ATEX

TECHNICAL SPECIFICATIONS

Base Fabric

Polyester

Coating

PVC (Both Sides)

Construction

Galvanized steel plate + Coated fabric +
Galvanized steel plate

Coated Fabric Weight

550 g/m² (16.2 oz/yd²)

Coated Fabric Thickness

450 micron (0.018 inch)

Tear Strength

weft = 180 N
warp = 250 N

(EN ISO 4674-1 Method A)

Tensile Strength

weft = 1400 N
warp = 1500 N

(EN ISO 1421 Method 1)

Color

Black

Temperature Range

-30 °C / +70 °C (-22 °F / +158 °F)

Fire Resistance

Fire retardant

Specifications

Suitable for protective systems in potentially explosive atmospheres.

EN 13463-1 surface conductivity resistance <10⁹

Packing

Single cardboard box

Available Options Upon Request

0.7 mm (24 gauge) galvanized type Suitable for protective systems in potentially explosive atmospheres

AFSCONNECTOR.PU

TECHNICAL SPECIFICATIONS

Base Fabric

Fiberglass

Coating

Polyurethane (Both sides)

Construction

Galvanized steel plate + Coated fabric +
Galvanized steel plate

Coated Fabric Weight

480 g/m² (14.2 oz/yd²)

Coated Fabric Thickness

450 micron (0.018 inch)

Tensile Strength

weft = 3100 N / 5 cm
warp = 3400 N / 5cm

(EN ISO 13934-1)

Color

Grey & Black

Temperature Range

-30 °C / +100 °C (-22 °F / +212 °F)

Fire Resistance

Fabric: Difficult to ignite

Coating: Fire retardant

Specifications

High resistance to abrasion

Suitable for high temperature applications for a short period of time (400 °C / 2 hours)

Packing

Single cardboard box

Available Options Upon Request

0.7 mm (24 gauge) galvanized type Suitable for protective systems in potentially explosive atmospheres

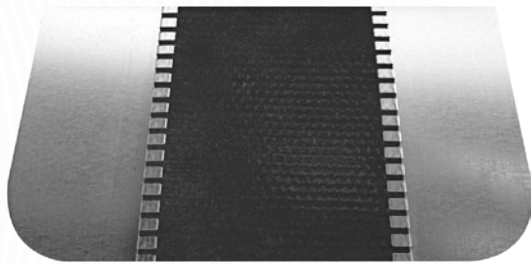
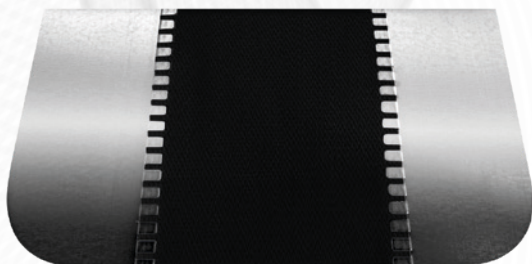
Certificates

A2(13501-1) (Europe) (Raw material)

UL 723 (Class 0) (USA)

NFPA 701 (Formerly UL 214) (USA)

F400 / 120 min. (Spain)



AFSCONNECTOR. PU FORTE

TECHNICAL SPECIFICATIONS

Base Fabric

Fiberglass

Coating

PU (Both sides)

Construction

Galvanized steel plate + Coated fabric +
Galvanized steel plate

Coated Fabric Weight

810 g/m² (23.9 oz/yd²)

Coated Fabric Thickness

700 micron (0.028 inch)

Color

Grey

Temperature Range

-30 °C / +100 °C (-22 °F / +212 °F)

Fire Resistance

Fabric: Difficult to ignite

Coating: Fire Retardant

Specifications

High resistance to abrasion

Packing

Single cardboard box

Available Options Upon Request

0.7 mm (24 gauge) galvanized type Suitable for
protective systems in potentially explosive atmospheres

Certificates

NFPA 701 (Formerly UL 214) (USA)

UL723 (USA)

AFSCONNECTOR. NEOPRENE FORTE

TECHNICAL SPECIFICATIONS

Base Fabric

Fiberglass

Coating

Neoprene (Both Sides)

Construction

Galvanized steel plate + Coated fabric +
Galvanized steel plate

Coated Fabric Weight

880 g/m² (26.0 oz/yd²)

Coated Fabric Thickness

720 micron (0.028 inch)

Color

Black

Temperature Range

-30 °C / +100 °C (-22 °F / +212 °F)

Fire Resistance

Fabric: Difficult to ignite

Coating: Fire Retardant

Specifications

Suitable for high velocity applications

High durability

Good chemical resistance (Alkalies & Gasoline)

Resistant to mildew

Packing

Single cardboard box

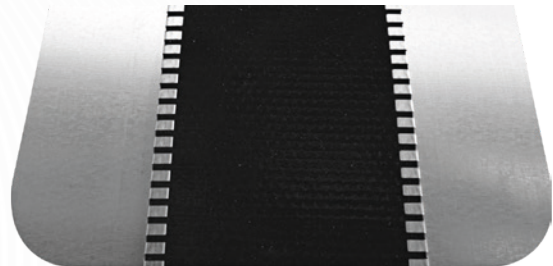
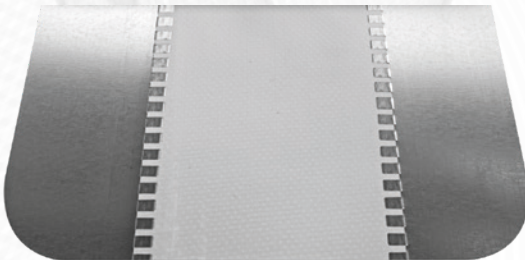
Available Options Upon Request

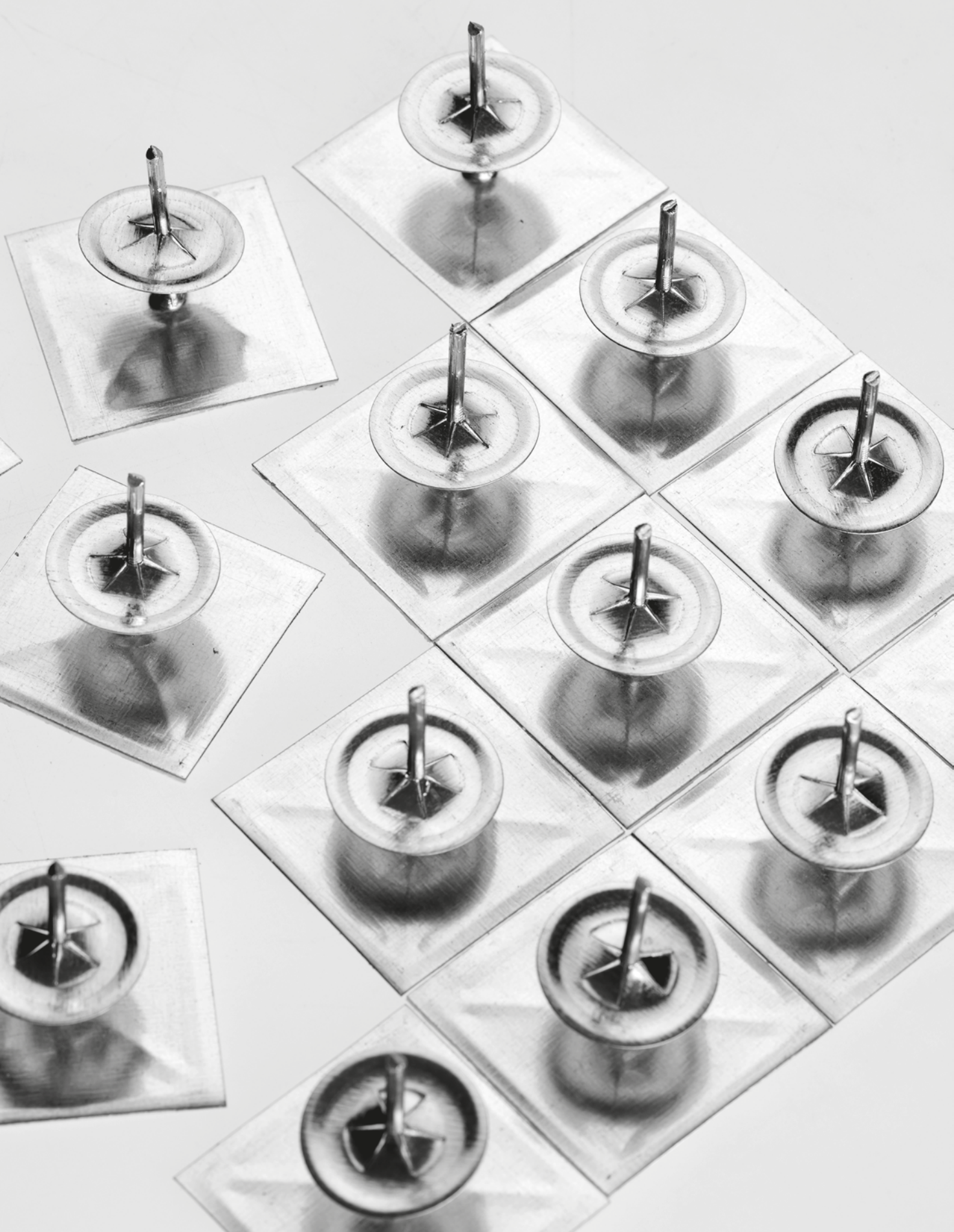
0.7 mm (24 gauge) galvanized type Suitable for
protective systems in potentially explosive atmospheres

Certificates

UL 723 (Class 1) (USA)

NFPA 701 (Formerly UL 214) (USA)





ALUMINIUM PIN

TECHNICAL SPECIFICATIONS

- Easy to cut, bend and mount
- Corrosion free

ALUMINIUM PIN WITH SAFE TIP

- Provides safe working environment
- Needs no pin cap



	BASE	PIN	FASTENING CLIPS
Construction	Reinforced Galvanized Steel	Aluminium	Galvanized Steel
Dimensions	50 x 50 mm (2"x2") 30x30 mm (1.2" x 1.2")	Ø 3 mm ± 0.3 mm Ø 2.2 mm ± 0.2 mm	Outside Ø30 mm (1.2")
Thickness	0.35 mm	-	0.30 mm
Adhesive	Acrylic Adhesive		
Pin Length	30 mm to 180 mm (1.2" to 7.0")		
Temperature Range	-10°C to +80°C (+14°F to +176°F) Application Temperature has to be > +10°C (+50°F) Ideal temperature for application ~ 23 °C		

AFSPIN PACKING DETAILS

Base Dimension: 50x50 mm

Pin Length	Packing Type	Package Amount
40 mm	Carton Box	500 Pieces with washer/ Box
60 mm	Carton Box	500 Pieces with washer/ Box
80 mm	Carton Box	400 Pieces with washer/ Box
100 mm	Carton Box	350 Pieces with washer/ Box
120 mm	Carton Box	300 Pieces with washer/ Box
140 mm	Carton Box	250 Pieces with washer/ Box
160 mm	Carton Box	200 Pieces with washer/ Box
200 mm	Carton Box	200 Pieces with washer/ Box



AFS cares about the workmen's safety!



Operational temperature range of AFSPIN is -10 °C / +80 °C. Application temperature has to be above +10 °C.
The surface applied on has to be free of any residues, dust, grease, oil, etc.

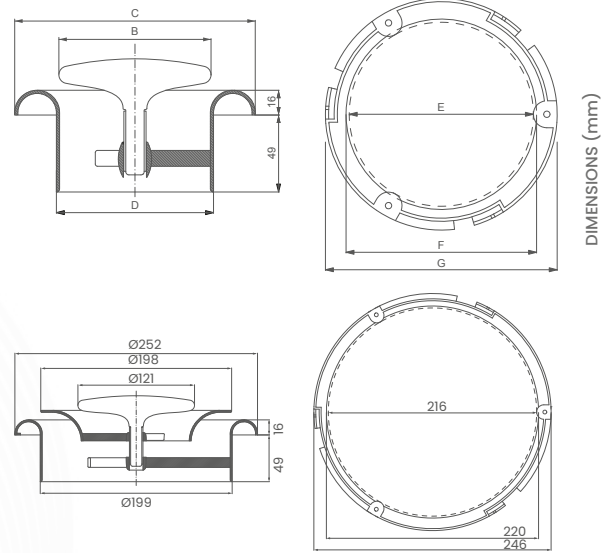
CONAIR
Ventilation Equipments



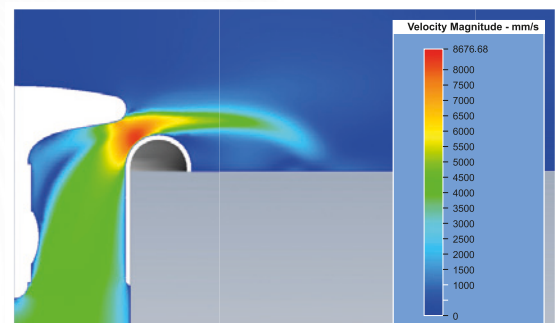
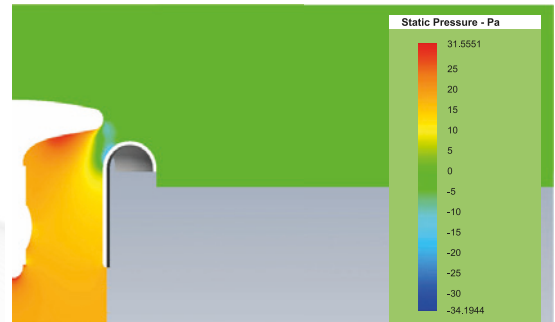


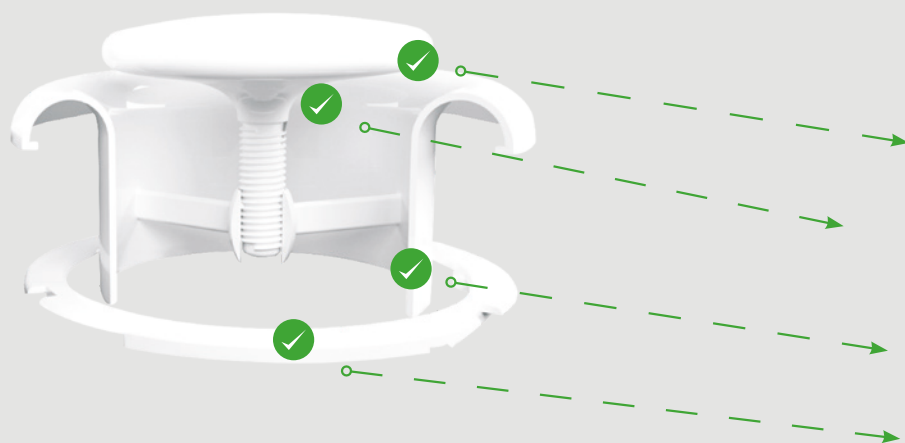
P SMART AIR DISC VALVES

- Mounting in 1 minute: Intellectual design enabling easy and quick mounting on the wall and ceiling
- Energy Saver: Optimum aerodynamic design ensuring very low pressure loss for supply and exhaust
- Recyclable: it is made from ABS plastic entirely
- Aesthetic compatibility with indoor ambience.
- Resistant to external impacts and having aesthetic appearance
- Contributing to have better indoor air quality and highly efficient in use. Integrated design eliminating air leakages



		DIMENSIONS					
	NOMINAL SIZE	Ø B	Ø C	Ø D	Ø E	Ø F	Ø G
P SMART	Ø 100	96	152	99	116	120	146
	Ø 125	121	177	124	141	145	171
	Ø 150	146	202	149	166	170	196
	Ø 200	121	252	199	216	220	246





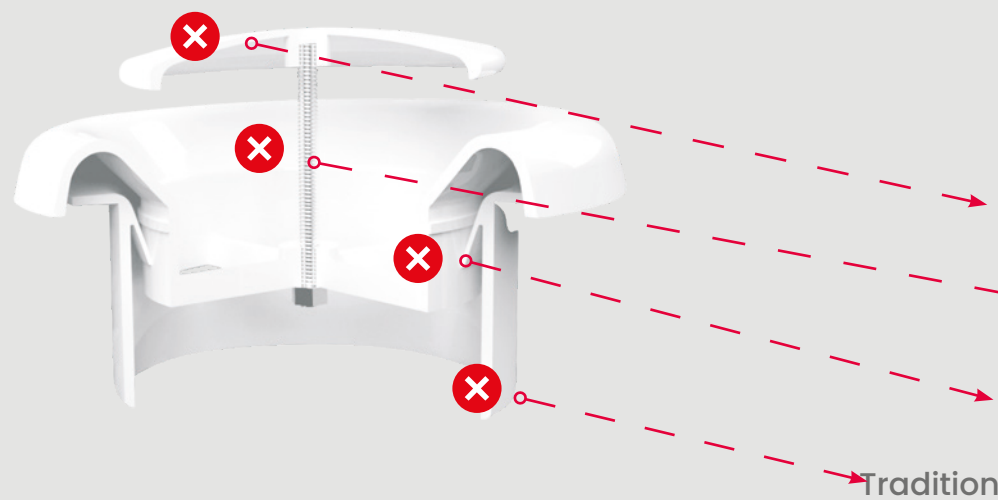
P-SMART

Innovative design
for exhaust & supply

Whole plastic screw
no metal part no corrosion

No deviation in air flow
constant air flow

Smart montage ring



TRADITIONAL

Traditional design
for exhaust & supply

Metal screw
corrosion danger

Deviation in air flow

Traditional montage methods

MONTAGE:

1



Screw the
mounting ring
where product
needs to be
mounted

2



Use the fines
on mounting
ring as a
template for
punching a
hole.

3



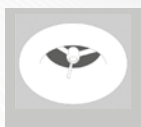
Punch the
hole by
assistance of
the template

4



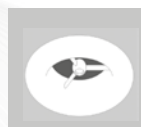
Connect
the duct
onto collar
of flanged
diffuser.

5



Place the
fixture
elements
behind
flanged
diffuser where
the gaps
on the ring
coincide with.

6



Turn the
flanged
diffuser
clock-wise
to secure
locking.

7



Screw the lid
onto threaded
hole at the
middle of
flanged
diffuser.

8



Rotate the lid
to adjust air
flow rate.

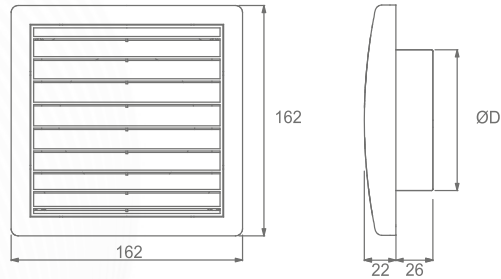


VERSATILE SMART SERIES L SMART LINEAR GRILLS



TECHNICAL SPECIFICATIONS

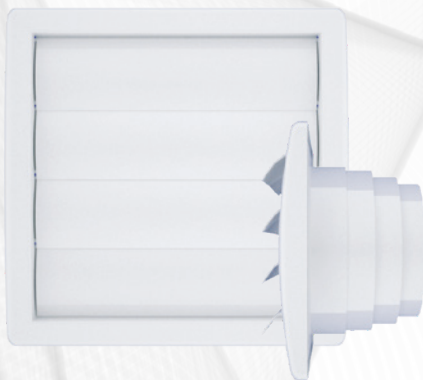
- Exchangeable collars
- Aesthetic new design
- Excellent design for both supply and exhaust ventilation
- Easy and practical montage to both walls and ducts
- Manufactured from ABS plastic
- Easy maintenance
- Mosquito net standard



DIMENSIONS (mm)

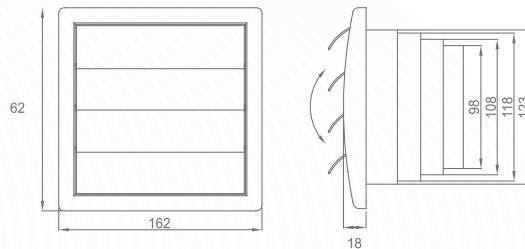
MODEL	NOMINAL SIZE	ØD
CONAIR 1040	No Collar	No Collar
CONAIR 1041	Ø 100	Ø 99
CONAIR 1042	Ø 125	Ø 124
CONAIR 1043	Ø 150	Ø 149

GRAVITY LOUVERS WITH 4 SET COLLAR



TECHNICAL SPECIFICATIONS

- Excellent design for exhaust ventilation
- For outside use, for movement of air one way from inside to outside
- Louvres balanced to give good air flow at appropriate pressure level
- Convenient for 4 size diameter usage
- Easy and practical montage
- Easy maintenance



DIMENSIONS (mm)

MODEL	NOMINAL SIZE	DESCRIPTION	ØD
CONAIR 025	Ø 100	Gravity louver with 4 set collar	Ø 98
	Ø 110		Ø 108
	Ø 120		Ø 118
	Ø 125		Ø 123

VERSATILE SMART SERIES G SMART GRAVITY LOUVERS

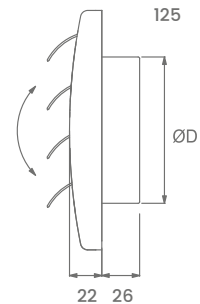
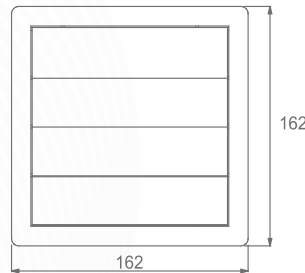


DIMENSIONS (mm)

MODEL	NOMINAL SIZE	ØD
CONAIR 1044	No Collar	No Collar
CONAIR 1045	Ø 100	Ø 99
CONAIR 1046	Ø 125	Ø 124
CONAIR 1047	Ø 150	Ø 149

TECHNICAL SPECIFICATIONS

- Exchangeable collars
- Aesthetic new design
- Excellent design for exhaust ventilation
- Easy and practical montage to both walls and ducts
- Manufactured from ABS plastic
- Easy maintenance
- Louvers balanced to give good air flow at appropriate pressure level
- One way air flow from indoors towards outdoors
- Mosquito net standard (except conair 1044)



VERSATILE SMART SERIES C SMART COWL OUTLET

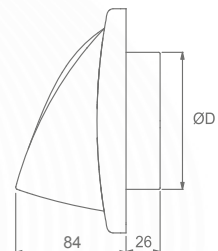
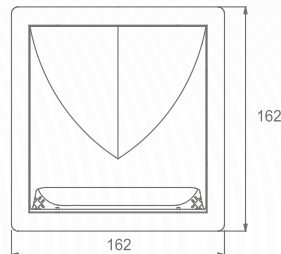


DIMENSIONS (mm)

MODEL	NOMINAL SIZE	ØD
CONAIR 1048	No Collar	No Collar
CONAIR 1049	Ø 100	Ø 99
CONAIR 1050	Ø 125	Ø 124
CONAIR 1051	Ø 150	Ø 149

TECHNICAL SPECIFICATIONS

- Exchangeable collars
- Aesthetic new design
- Excellent design for both supply and exhaust ventilation
- Easy and practical montage to both walls and ducts
- Manufactured from ABS plastic
- Easy maintenance
- For outdoors suitable for tumble drier extraction
- Mosquito net standard

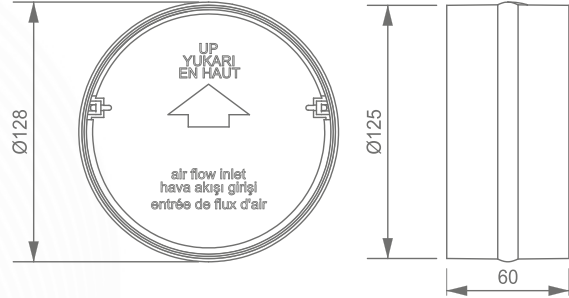


ROUND DUCTING CONNECTOR BACK DRAUGHT SHUTTER



TECHNICAL SPECIFICATIONS

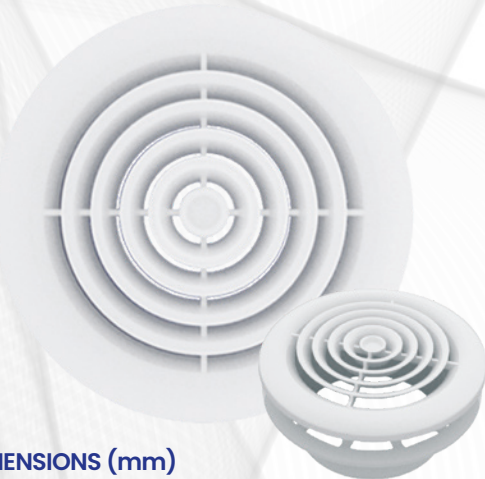
- Ideal for domestic and light commercial applications
- Plastic Back Draught shutter to prevent outside air from passing through the unit in reverse direction when the fan is not operating



DIMENSIONS (mm)

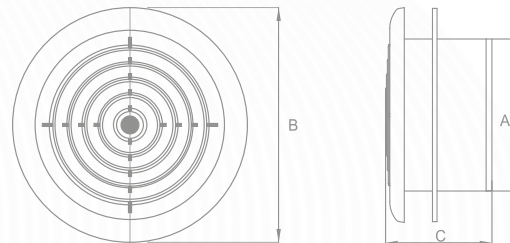
MODEL	NOMINAL SIZE	SIZE
CONAIR 060	Ø 100	85 x Ø 99
CONAIR 061	Ø 125	60 x Ø 128

CEILING DIFFUSER



TECHNICAL SPECIFICATIONS

- Economical high performance diffuser
- Providing on architecturally pleasing ceiling affect
- Excellent design for surface mounting applications
- Multilayer cone can divide the air into many layers of swift puffs
- Smoothly balances the flow and temperature of the air
- Manufactured from ABS plastic
- Easy and practical montage
- Easy maintenance
- Mosquito net standard



DIMENSIONS (mm)

MODEL	NOMINAL SIZE	Ø A	Ø B	C
CONAIR 031	Ø 100	100	141	70
CONAIR 032	Ø 125	124	166	71
CONAIR 033	Ø 150	150	188	73

ROUND LINEAR GRILLS



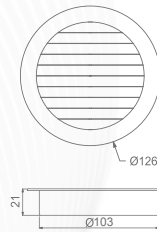
DIMENSIONS (mm)

MODEL	NOMINAL SIZE	DESCRIPTION	ØD
CONAIR 006	Ø 100	Round linear grill	Ø 103
CONAIR 007	Ø 200	Round linear grill	Ø 199
CONAIR 008	Ø 100-150	Round linear grills adjustable collar	Ø 103-153

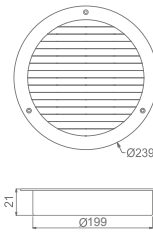
TECHNICAL SPECIFICATIONS

- Innovative design for exhaust and supply ventilation
- Convenient for connecting to round duct
- Adjustable collar diameter (only conair 008)
- Convenient for wall application
- Easy and practical montage
- Round frame
- Easy maintenance
- Various color options
- Mosquito net standard (only conair 008)

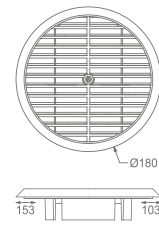
CONAIR 006



CONAIR 007



CONAIR 008



DOOR TRANSFER GRILLS

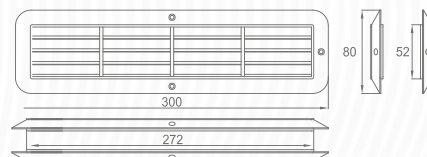
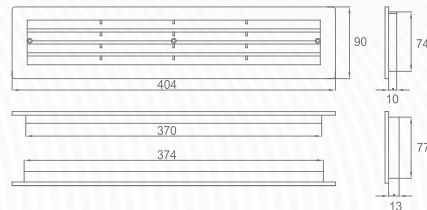


DIMENSIONS (mm)

MODEL	DESCRIPTION	DIMENSIONS (mm)
CONAIR 019	Door Transfer Grill	300 x 80
CONAIR 020	Door Transfer Grill	404 x 90

TECHNICAL SPECIFICATIONS

- Allows air circulations
- Double sided
- Overlapping V-shaped blades
- For mounting on doors in WC areas, showers, swimming pools etc.
- Various color options on demand
- Both parts of the grill are joined together by screws
- Easy and practical montage
- Easy maintenance

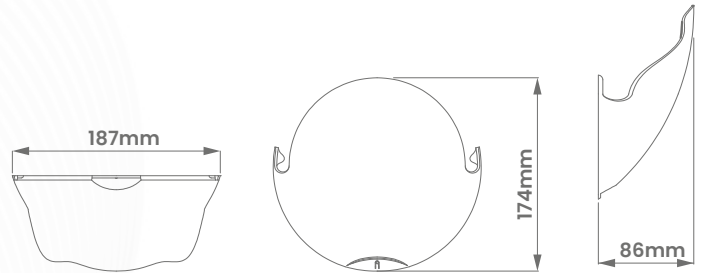


AIR DEFLECTOR



End the cold air inflow

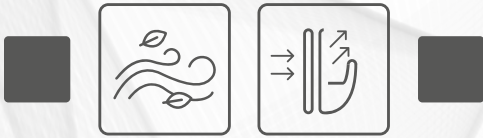
Air Deflector steers the air upwards and disables direct contact with cold air. Through Air Deflectors, the cold air from the outside is diverted upwards and mixes with the warm indoors air thus providing an ideal temperature and no direct contact with cold air.



Air Deflector steers the air upwards and disables direct contact with cold air.

Loosen the screw of the grill on the window and place the Air Deflector, make sure that the deflector is placed securely and tighten the screw. For a perfect result use CONAIR 010 and place the deflector outside downwards, inside upwards,

Window grills are of vital importance during a gas leak. The intake of fresh air from the window grills provide oxygen. Please do not shut or block your window grills for your own safety.



Keep your kitchen warm and your mind at ease with the Air Deflector.

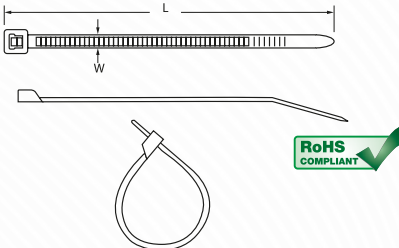
- With its ideal design, it supplies optimum fresh air indoors.
- Provides fresh air.
- With its unique transparent design, it is suitable for all types of windows.
- It is odorless and made of crystal polystyrene.
- It is durable against external factors such as acids, alkali and oils.
- It can be cleaned with all types of cleaning agents.

NYLON CLAMPS

TECHNICAL SPECIFICATIONS

- Nylon clamps are specifically produced for all kinds of flexible air duct connections as an economical alternative.
- Nylon clamp edges are rounded to provide safer working environment.
- Self -locking system makes it easy and quick to apply.
- Nylon clamp pliers are specifically produced for an easy application and tightening of Nylon Clamps.

TECHNICAL PROPERTIES

MATERIAL	NYLON CLAMPS		
	Application Range (mm)	W (mm)	L (mm)
	Ø 0 – 102	4.8	380
	Ø 0 – 152	7.6	550
	Ø 0 – 203	9.0	710
	Ø 0 – 254	9.0	900

TAPE

AFSTAPE	PLAIN 30 Micron
Tensile Strength	45 N / 25 mm
Length	40 m
Standart Dimensions - width	48 mm, 72 mm, 96 mm

PACKING

AFSTAPE Width	Box dimension cm x cm x cm	Pieces/box
48 mm	25x25x30	24
72 mm		16
96 mm		12



PRE-CUTTED METAL CLAMPS



Clamp Construction	:	AISI 430 Stainless Steel
Locking Device Construction	:	Nickel plated housing, zinc plated screw
Standard Length (Clamp)	:	60/110 mm to 60/710 mm
Clamp Width	:	9 mm

READY METAL CLAMPS	Prati 60/110	Prati 60/135	Prati 60/145	Prati 60/165	Prati 60/170	Prati 60/215	Prati 60/270	Prati 60/325	Prati 60/380	Prati 60/425	Prati 60/525	Prati 60/660	Prati 60/710
LENGTH (mm)	370	450	476,5	549	560	705	890	1055	1235	1365	1685	2100	2285

STRIP STEEL BANDING SYSTEM (Cassette Type)



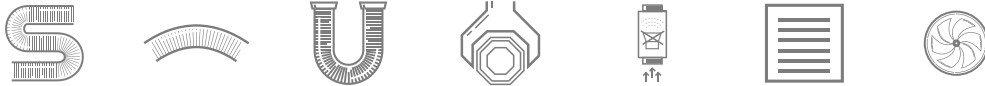
Clamp Construction	:	AISI 430 Stainless Steel
Locking Device Construction	:	Nickel plated housing, zinc plated screw
Packing (Clamp)	:	Single plastic cassette
Quantity of Locking Devices	:	50 pieces per box
Standard Length (Clamp)	:	30 m
Clamp Width	:	9 mm

[illegible]

[illegible]



Flexible Air Ducts & Accessories



FLEXIBLE KANAL AŞ

İvedik OSB Havalandırmacılar Cad.
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